



Mektovi s1_c1

Binimetinib s2_c1

15 mg film-coated tablets s3_c3

Reference Market: US s5_c3

AfME markets using this LPD: Egypt s6_c6

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use MEKTOVI safely and effectively. See full prescribing information for MEKTOVI.

MEKTOVI® (binimetinib) tablets, for oral use

Initial U.S. Approval: 2018

INDICATIONS AND USAGE

MEKTOVI is a kinase inhibitor indicated:

- in combination with encorafenib, for the treatment of patients with unresectable or metastatic melanoma with a *BRAF V600E* or *V600K* mutation, as detected by an FDA-approved test. (1.1, 2.1)
- in combination with encorafenib, for the treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) with a *BRAF V600E* mutation, as detected by an FDA-approved test. (1.2, 2.1)

DOSAGE AND ADMINISTRATION

Melanoma

- Confirm the presence of *BRAF V600E* or *V600K* mutation in tumor specimens prior to the initiation of MEKTOVI. (2.1)
- The recommended dose is 45 mg orally twice daily in combination with encorafenib. Take MEKTOVI with or without food.
- For patients with moderate or severe hepatic impairment the recommended dose is 30 mg orally twice daily.

NSCLC

- Confirm the presence of *BRAF V600E* mutation in tumor or plasma specimens prior to initiating MEKTOVI. (2.1)
- The recommended dose is 45 mg orally twice daily in combination with encorafenib. Take MEKTOVI with or without food.

DOSAGE FORMS AND STRENGTHS

Tablets: 15 mg. (3)

CONTRAINDICATIONS

None.

WARNINGS AND PRECAUTIONS

- New Primary Malignancies, Cutaneous and Non-cutaneous:** Can occur when MEKTOVI is used in combination with encorafenib. Monitor

patients for new malignancies prior to initiation of treatment, during treatment, and after discontinuation of treatment. (5.1)

- Cardiomyopathy:** Assess left ventricular ejection fraction (LVEF) before initiating treatment, after one month of treatment, then every 2 to 3 months thereafter. The safety of MEKTOVI has not been established in patients with LVEF below 50%. (5.2)
- Venous Thromboembolism:** Deep vein thrombosis and pulmonary embolism can occur. (5.3)
- Ocular Toxicities:** Serous retinopathy, retinal vein occlusion (RVO) and uveitis have occurred. Perform an ophthalmologic evaluation at regular intervals and for any visual disturbances. (5.4)
- Interstitial Lung Disease (ILD):** Assess new or progressive pulmonary symptoms or findings for possible ILD.
- Hepatotoxicity:** Monitor liver function tests before and during treatment with MEKTOVI and encorafenib and as clinically indicated.
- Rhabdomyolysis:** Monitor creatine phosphokinase and creatinine periodically and as clinically indicated. (5.7)
- Hemorrhage:** Major hemorrhagic events can occur in patients receiving MEKTOVI and encorafenib. (5.8)
- Embryo-Fetal Toxicity:** Can cause fetal harm. Advise females with reproductive potential of potential risk to the fetus and to use effective contraception. (5.9, 8.1, 8.3)

ADVERSE REACTIONS

Melanoma: Most common adverse reactions (≥25%) for MEKTOVI, in combination with encorafenib, are fatigue, nausea, diarrhea, vomiting, and abdominal pain. (6.1)

NSCLC: Most common adverse reactions (≥25%) for MEKTOVI, in combination with encorafenib, are fatigue, nausea, diarrhea, musculoskeletal pain, vomiting, abdominal pain, visual impairment, constipation, dyspnea, rash, and cough. (6.1)

USE IN SPECIFIC POPULATIONS

Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: March 2025

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1 INDICATIONS AND USAGE s92_c4

1.1 *BRAF V600E* or *V600K* Mutation-Positive Unresectable or Metastatic Melanoma s93_c10

MEKTOVI is indicated, in combination with encorafenib, for the treatment of patients with unresectable or metastatic melanoma with a *BRAF V600E* or *V600K* mutation, as detected by an FDA-approved test [see Dosage and Administration (2.1)].

1.2 *BRAF V600E* Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC) s97_c10

MEKTOVI is indicated, in combination with encorafenib, for the treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) with a *BRAF V600E* mutation, as detected by an FDA-approved test. [see Dosage and Administration (2.1)].

2 DOSAGE AND ADMINISTRATION s101_c4

2.1 Patient Selection s102_c3

BRAF V600E or *V600K* Mutation-Positive Unresectable or Metastatic Melanoma s103_c9

Confirm the presence of a *BRAF V600E* or *V600K* mutation in tumor specimens prior to initiating MEKTOVI [see Clinical Studies (14)]. Information on FDA-approved tests for the detection of *BRAF V600E* and *V600K* mutations in melanoma is available at:

<http://www.fda.gov/CompanionDiagnostics>.

BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC) s109_c9

Confirm the presence of a *BRAF V600E* mutation in tumor or plasma specimens prior to initiating MEKTOVI [see Clinical Studies (14.2)]. If no mutation is detected in a plasma specimen, test tumor tissue. Information on FDA-approved tests for the detection of *BRAF V600E* mutations in NSCLC is available at:

<http://www.fda.gov/CompanionDiagnostics>.

2.2 Recommended Dosage and Administration s115_c5

The recommended dosage of MEKTOVI is 45 mg orally taken twice daily, approximately 12 hours apart, in combination with encorafenib until disease progression or unacceptable toxicity. Refer to the encorafenib prescribing information for recommended encorafenib dosing information.

MEKTOVI may be taken with or without food [see Clinical Pharmacology (12.3)]. Do not take a missed dose of MEKTOVI within 6 hours of the next dose of MEKTOVI.

Do not take an additional dose if vomiting occurs after MEKTOVI administration but continue with the next scheduled dose.

2.3 Dosage Modifications for Adverse Reactions s125_c6

If encorafenib is permanently discontinued, discontinue MEKTOVI.

Dose reductions for adverse reactions associated with MEKTOVI are presented in Table 1.

Table 1: Recommended Dose Reductions for MEKTOVI for Adverse Reactions s128_c10

Action	Recommended Dose s129_c3
First Dose Reduction	30 mg orally twice daily s130_c8
Subsequent Modification	Permanently discontinue if unable to tolerate MEKTOVI 30 mg orally twice daily s131_c13

Dosage modifications for adverse reactions associated with MEKTOVI are presented in Table 2. s132_c13

Table 2: Recommended Dosage Modifications for MEKTOVI for Adverse Reactions s133_c10

Severity of Adverse Reaction ^a	Dose Modification for MEKTOVI s134_c8
Cardiomyopathy [see Warnings and Precautions (5.2)] s135_c6	

Table 2: Recommended Dosage Modifications for MEKTOVI for Adverse Reactions

Severity of Adverse Reaction ^a	Dose Modification for MEKTOVI
<ul style="list-style-type: none"> Asymptomatic, absolute decrease in LVEF of greater than 10% from baseline that is also below lower limit of normal (LLN) 	Withhold MEKTOVI for up to 4 weeks, evaluate LVEF every 2 weeks. Resume MEKTOVI at a reduced dose if the following are present: <ul style="list-style-type: none"> LVEF is at or above the lower limit of normal and Absolute decrease from baseline is 10% or less and Patient is asymptomatic. If the LVEF does not recover within 4 weeks permanently discontinue MEKTOVI.
<ul style="list-style-type: none"> Symptomatic congestive heart failure or absolute decrease in LVEF of greater than 20% from baseline that is also below LLN 	Permanently discontinue MEKTOVI.
<i>Venous Thromboembolism [see Warnings and Precautions (5.3)]</i>	
<ul style="list-style-type: none"> Uncomplicated deep venous thrombosis (DVT) or pulmonary embolism (PE) 	Withhold MEKTOVI. <ul style="list-style-type: none"> If improves to Grade 0-1, resume at a reduced dose. If no improvement, permanently discontinue MEKTOVI.
<ul style="list-style-type: none"> Life threatening PE 	Permanently discontinue MEKTOVI.
<i>Serous Retinopathy [see Warnings and Precautions (5.4)]</i>	
<ul style="list-style-type: none"> Symptomatic serous retinopathy/Retinal pigment epithelial detachments 	Withhold MEKTOVI for up to 10 days. <ul style="list-style-type: none"> If improves and becomes asymptomatic, resume at same dose. If not improved, resume at a lower dose level or permanently discontinue MEKTOVI.
<i>Retinal Vein Occlusion (RVO) [see Warnings and Precautions (5.4)]</i>	
<ul style="list-style-type: none"> Any Grade 	Permanently discontinue MEKTOVI.
<i>Uveitis [see Warnings and Precautions (5.4)]</i>	
<ul style="list-style-type: none"> Grade 1-3 	If Grade 1 or 2 does not respond to specific ocular therapy, or for Grade 3 uveitis, withhold MEKTOVI for up to 6 weeks. <ul style="list-style-type: none"> If improved, resume at same or reduced dose. If not improved, permanently discontinue MEKTOVI.
<ul style="list-style-type: none"> Grade 4 	Permanently discontinue MEKTOVI.
<i>Interstitial Lung Disease [see Warnings and Precautions (5.5)]</i>	
<ul style="list-style-type: none"> Grade 2 	Withhold MEKTOVI for up to 4 weeks. <ul style="list-style-type: none"> If improved to Grade 0-1, resume at a reduced dose. If not resolved within 4 weeks, permanently discontinue MEKTOVI.
<ul style="list-style-type: none"> Grade 3 or Grade 4 	Permanently discontinue MEKTOVI.
<i>Hepatotoxicity [see Warnings and Precautions (5.6)]</i>	
<ul style="list-style-type: none"> Grade 2 AST or ALT increased 	Maintain MEKTOVI dose. <ul style="list-style-type: none"> If no improvement within 2 weeks, withhold MEKTOVI until improved to Grade 0-1 or to pretreatment/baseline levels and then resume at the same dose.
<ul style="list-style-type: none"> Grade 3 or 4 AST or ALT increased 	See <i>Other Adverse Reactions</i> .
<i>Rhabdomyolysis or Creatine Phosphokinase (CPK) elevations [see Warnings and Precautions (5.7)]</i>	
<ul style="list-style-type: none"> Grade 4 asymptomatic CPK elevation or Any Grade CPK elevation with symptoms or with renal impairment 	Withhold MEKTOVI dose for up to 4 weeks. <ul style="list-style-type: none"> If improved to Grade 0-1 resume at a reduced dose. If not resolved within 4 weeks, permanently discontinue MEKTOVI.

Table 2: Recommended Dosage Modifications for MEKTOVI for Adverse Reactions

Severity of Adverse Reaction ^a	Dose Modification for MEKTOVI
<i>Dermatologic [other than palmar plantar erythrodysesthesia syndrome (PPES)] [see Adverse Reactions (6.1)]</i>	
• Grade 2	If no improvement within 2 weeks, withhold MEKTOVI until Grade 0-1. Resume at same dose if first occurrence or reduce dose if recurrent.
• Grade 3	Withhold MEKTOVI until Grade 0-1. Resume at same dose if first occurrence or reduce dose if recurrent.
• Grade 4	Permanently discontinue MEKTOVI.
<i>Other Adverse Reactions (including Hemorrhage) [see Warnings and Precautions (5.8), Adverse Reactions (6.1)]^b</i>	
• Recurrent Grade 2 or • First occurrence of any Grade 3	Withhold MEKTOVI for up to 4 weeks. • If improves to Grade 0-1 or to pretreatment/baseline levels, resume at reduced dose. • If no improvement, permanently discontinue MEKTOVI.
• First occurrence of any Grade 4	Permanently discontinue MEKTOVI, or Withhold MEKTOVI for up to 4 weeks. • If improves to Grade 0-1 or to pretreatment/baseline levels, then resume at a reduced dose. • If no improvement, permanently discontinue MEKTOVI.
• Recurrent Grade 3	Consider permanently discontinuing MEKTOVI.
• Recurrent Grade 4	Permanently discontinue MEKTOVI.

- a. National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.03.
- b. Dose modification of MEKTOVI when administered with encorafenib is not recommended for the following adverse reactions: palmar-plantar erythrodysesthesia syndrome (PPES), non-cutaneous RAS mutation-positive malignancies, and QTc prolongation.

Refer to the encorafenib prescribing information for dose modifications for adverse reactions associated with encorafenib.

2.4 Dosage Modifications for Moderate or Severe Hepatic Impairment

For patients with moderate (total bilirubin greater than 1.5 and less than or equal to 3 × ULN and any AST) or severe (total bilirubin levels greater than 3 × ULN and any AST) hepatic impairment, the recommended dosage is 30 mg orally taken twice daily [see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)].

3 DOSAGE FORMS AND STRENGTHS

Tablets: 15 mg, yellow to dark yellow, unscored ovaloid biconvex film-coated tablets debossed with stylized “A” debossed on one side and “15” on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 New Primary Malignancies

New primary malignancies, cutaneous and non-cutaneous, can occur when MEKTOVI is used in combination with encorafenib.

In PHAROS, cutaneous squamous cell carcinoma and skin papilloma each occurred in 2% of patients who received MEKTOVI in combination with encorafenib.

Monitor patients for new malignancies prior to initiation of treatment, while on treatment, and after discontinuation of treatment [see Dosage and Administration (2.3)].

5.2 Cardiomyopathy

Cardiomyopathy, manifesting as left ventricular dysfunction associated with symptomatic or asymptomatic decreases in ejection fraction, has been reported in patients treated with MEKTOVI in combination with

encorafenib. In COLUMBUS, evidence of cardiomyopathy (decrease in LVEF below the institutional LLN with an absolute decrease in LVEF $\geq 10\%$ below baseline as detected by echocardiography or MUGA) occurred in 7% of patients receiving MEKTOVI plus encorafenib. Grade 3 left ventricular dysfunction occurred in 1.6% of patients. The median time to first occurrence of left ventricular dysfunction (any grade) in patients receiving MEKTOVI in combination with encorafenib was 3.6 months (range 0 to 21 months). Cardiomyopathy resolved in 87% of patients receiving MEKTOVI plus encorafenib.

In PHAROS, evidence of cardiomyopathy (decrease in LVEF below the institutional LLN with an absolute decrease in LVEF $\geq 10\%$ below baseline as detected by echocardiography or MUGA) occurred in 11% of patients receiving MEKTOVI in combination with encorafenib. Grade 3 left ventricular dysfunction occurred in 1% of patients. Cardiomyopathy resolved in 82% of patients receiving MEKTOVI plus encorafenib.

Assess ejection fraction by echocardiogram or MUGA scan prior to initiating treatment, one month after initiating treatment, and then every 2 to 3 months during treatment. The safety of MEKTOVI in combination with encorafenib has not been established in patients with a baseline ejection fraction that is either below 50% or below the institutional lower limit of normal (LLN). Patients with cardiovascular risk factors should be monitored closely when treated with MEKTOVI.

Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [*see Dosage and Administration (2.3), Adverse Reactions (6.1)*].

5.3 Venous Thromboembolism

In COLUMBUS, venous thromboembolism (VTE) occurred in 6% of patients receiving MEKTOVI in combination with encorafenib, including 3.1% of patients who developed pulmonary embolism. In PHAROS, VTE occurred in 7% of patients receiving MEKTOVI in combination with encorafenib, including 1% of patients who developed pulmonary embolism.

Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [*see Dosage and Administration (2.3), Adverse Reactions (6.1)*].

5.4 Ocular Toxicities

Serous Retinopathy

In COLUMBUS, serous retinopathy occurred in 20% of patients treated with MEKTOVI in combination with encorafenib; 8% were retinal detachment and 6% were macular edema. Symptomatic serous retinopathy occurred in 8% of patients with no cases of blindness. No patient discontinued MEKTOVI due to serous retinopathy; 6% of patients required dose interruptions or dose reductions. The median time to onset of the first event of serous retinopathy (all grades) was 1.2 months (range 0 to 17.5 months).

In PHAROS, serous retinopathy (retinal detachment) occurred in 2% of patients with no cases of blindness treated with MEKTOVI in combination with encorafenib. No patient permanently discontinued MEKTOVI due to serous retinopathy; 1% of patients required dose interruptions.

Assess for visual symptoms at each visit. Perform an ophthalmologic examination at regular intervals, for new or worsening visual disturbances, and to follow new or persistent ophthalmologic findings. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [*see Dosage and Administration (2.3), Adverse Reactions (6.1)*].

Retinal Vein Occlusion

RVO is a known class-related adverse reaction of MEK inhibitors and may occur in patients treated with MEKTOVI in combination with encorafenib. In patients with BRAF mutation-positive melanoma receiving MEKTOVI with encorafenib (n=690), 1 patient experienced RVO (0.1%).

The safety of MEKTOVI has not been established in patients with a history of RVO or current risk factors for RVO including uncontrolled glaucoma or a history of hyperviscosity or hypercoagulability syndromes.

Perform ophthalmologic evaluation for patient-reported acute vision loss or other visual disturbance within 24 hours. Permanently discontinue MEKTOVI in patients with documented RVO [*see Dosage and Administration (2.3), Adverse Reactions (6.1)*].

Uveitis s296_c1

Uveitis, including iritis and iridocyclitis, has been reported in patients treated with MEKTOVI in combination with encorafenib. In COLUMBUS, the incidence of uveitis among patients treated with MEKTOVI in combination with encorafenib was 4%. In PHAROS, uveitis occurred in 1% of patients receiving MEKTOVI in combination with encorafenib.

Assess for visual symptoms at each visit. Perform an ophthalmologic evaluation at regular intervals and for new or worsening visual disturbances, and to follow new or persistent ophthalmologic findings. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see *Dosage and Administration* (2.3), *Adverse Reactions* (6.1)].

5.5 Interstitial Lung Disease s306_c4

In patients with BRAF mutation-positive melanoma receiving MEKTOVI with encorafenib (n=690), 2 patients (0.3%) developed interstitial lung disease (ILD), including pneumonitis. In PHAROS, 1 patient (1%) receiving MEKTOVI with encorafenib developed pneumonitis.

Assess new or progressive unexplained pulmonary symptoms or findings for possible ILD. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see *Dosage and Administration* (2.3), *Adverse Reactions* (6.1)].

5.6 Hepatotoxicity s313_c2

Hepatotoxicity can occur when MEKTOVI is administered in combination with encorafenib. In COLUMBUS, the incidence of Grade 3 or 4 increases in liver function laboratory tests in patients receiving MEKTOVI in combination with encorafenib was 6% for alanine aminotransferase (ALT), 2.6% for aspartate aminotransferase (AST), and 0.5% for alkaline phosphatase. No patient experienced Grade 3 or 4 serum bilirubin elevation. In PHAROS, the incidence of Grade 3 or 4 increases in liver function laboratory tests in patients receiving MEKTOVI in combination with encorafenib was 10% for AST, 9% for ALT, and 3.2% for alkaline phosphatase.

Monitor liver laboratory tests before initiation of MEKTOVI, monthly during treatment, and as clinically indicated. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see *Dosage and Administration* (2.3), *Adverse Reactions* (6.1)].

5.7 Rhabdomyolysis s324_c2

Rhabdomyolysis can occur when MEKTOVI is administered in combination with encorafenib. In COLUMBUS, elevation of laboratory values of serum CPK occurred in 58% of patients treated with MEKTOVI in combination with encorafenib. In patients with BRAF mutation-positive melanoma receiving MEKTOVI with encorafenib (n=690), rhabdomyolysis was reported in 1 patient (0.1%). In PHAROS, elevation of laboratory values of serum creatine kinase (CK) occurred in 41% of patients treated with MEKTOVI in combination with encorafenib. No patient experienced rhabdomyolysis.

Monitor CPK and creatinine levels prior to initiating MEKTOVI, periodically during treatment, and as clinically indicated. Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see *Dosage and Administration* (2.3), *Adverse Reactions* (6.1)].

5.8 Hemorrhage s334_c2

Hemorrhage can occur when MEKTOVI is administered in combination with encorafenib. In COLUMBUS, hemorrhage occurred in 19% of patients receiving MEKTOVI in combination with encorafenib. Grade 3 or greater hemorrhage occurred in 3.2% of patients. The most frequent hemorrhagic events were gastrointestinal, including rectal hemorrhage (4.2%), hematochezia (3.1%), and hemorrhoidal hemorrhage (1%). Fatal intracranial hemorrhage in the setting of new or progressive brain metastases occurred in 1.6% of patients.

In PHAROS, hemorrhage occurred in 12% of patients receiving MEKTOVI in combination with encorafenib including fatal hemorrhage intracranial (1%); Grade 3 or 4 hemorrhage occurred in 4.1% of patients. The most frequent hemorrhagic events were anal hemorrhage and hemothorax (2% each).

Withhold, reduce dose, or permanently discontinue based on severity of adverse reaction [see Dosage and Administration (2.3), Adverse Reactions (6.1)].

5.9 Embryo-Fetal Toxicity

Based on findings from animal studies and its mechanism of action, MEKTOVI can cause fetal harm when administered to a pregnant woman. Binimetinib was embryotoxic and abortifacient when administered to rabbits during the period of organogenesis at doses greater than or equal to those resulting in exposures approximately 5 times the human exposure at the recommended clinical dose of 45 mg twice daily.

Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with MEKTOVI and for 30 days after the last dose [see Use in Specific Populations (8.1, 8.3)].

5.10 Risks Associated with Combination Treatment

MEKTOVI is indicated for use in combination with encorafenib. Refer to the encorafenib prescribing information for additional risk information that applies to combination use treatment.

6 ADVERSE REACTIONS

The following adverse reactions are described elsewhere in the labeling:

- New Primary Malignancies [see Warnings and Precautions (5.1)]
- Cardiomyopathy [see Warnings and Precautions (5.2)]
- Venous Thromboembolism [see Warnings and Precautions (5.3)]
- Ocular Toxicities [see Warnings and Precautions (5.4)]
- Interstitial Lung Disease [see Warnings and Precautions (5.5)]
- Hepatotoxicity [see Warnings and Precautions (5.6)]
- Rhabdomyolysis [see Warnings and Precautions (5.7)]
- Hemorrhage [see Warnings and Precautions (5.8)]
- Embryo-Fetal Toxicity [see Warnings and Precautions (5.9)]
- Risks Associated with Combination Treatment [see Warnings and Precautions (5.10)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The data described in WARNINGS AND PRECAUTIONS reflect exposure of 192 patients with *BRAF V600* mutation-positive unresectable or metastatic melanoma to MEKTOVI 45 mg twice daily in combination with encorafenib 450 mg once daily in a randomized open-label, active-controlled trial (COLUMBUS) [see Clinical Studies (14.1)] or, for rare events, exposure of 690 patients with *BRAF V600* mutation-positive melanoma to MEKTOVI 45 mg twice daily in combination with encorafenib once daily across multiple clinical trials (NCT03915951, NCT01909453).

The pooled safety population described in the WARNINGS AND PRECAUTIONS also reflect exposure of 98 patients with *BRAF V600E* mutation-positive metastatic non-small cell lung cancer to MEKTOVI 45 mg twice daily and encorafenib 450 mg once daily until disease progression or unacceptable toxicity in PHAROS [see Clinical Studies (14.2)].

BRAF V600E or *V600K* Mutation-Positive Unresectable or Metastatic Melanoma

The data described below reflect exposure of 192 patients with *BRAF V600* mutation-positive unresectable or metastatic melanoma to MEKTOVI (45 mg twice daily) in combination with encorafenib (450 mg once daily) in COLUMBUS.

The COLUMBUS trial [see Clinical Studies (14.1)] excluded patients with a history of Gilbert's syndrome, abnormal left ventricular ejection fraction, prolonged QTc (>480 msec), uncontrolled hypertension, and history or current evidence of retinal vein occlusion. The median duration of exposure was 11.8 months for

patients treated with MEKTOVI in combination with encorafenib and 6.2 months for patients treated with vemurafenib. s407_c1 s406_c15

The most common ($\geq 25\%$) adverse reactions in patients receiving MEKTOVI in combination with encorafenib were fatigue, nausea, diarrhea, vomiting, and abdominal pain. s408_c13 s409_c9

Adverse reactions leading to dose interruptions of MEKTOVI occurred in 33% of patients receiving MEKTOVI in combination with encorafenib; the most common were left ventricular dysfunction (6%) and serous retinopathy (5%). Adverse reactions leading to dose reductions of MEKTOVI occurred in 19% of patients receiving MEKTOVI in combination with encorafenib; the most common were left ventricular dysfunction (3%), serous retinopathy (3%), and colitis (2%). Five percent (5%) of patients receiving MEKTOVI in combination with encorafenib experienced an adverse reaction that resulted in permanent discontinuation of MEKTOVI. The most common adverse reactions resulting in permanent discontinuation of MEKTOVI were hemorrhage in 2% and headache in 1% of patients. s410_c14 s411_c14 s412_c15 s413_c13 s414_c14 s415_c13 s416_c12 s417_c12

Table 3 and Table 4 present adverse drug reactions and laboratory abnormalities, respectively, identified in COLUMBUS. The COLUMBUS trial was not designed to demonstrate a statistically significant difference in adverse reaction rates for MEKTOVI in combination with encorafenib, as compared to vemurafenib, for any specific adverse reaction listed in Table 3. s418_c15 s419_c13 s420_c15 s421_c7

Table 3: Adverse Reactions Occurring in ≥10% of Patients Receiving MEKTOVI in Combination with Encorafenib in COLUMBUS^a s424_c13 s425_c4

Adverse Reaction <small>s431_c2</small>	MEKTOVI <small>s426_c1</small> with encorafenib <small>s428_c2</small> N=192 <small>s430_c1</small>		Vemurafenib <small>s427_c1</small> N=186 <small>s429_c1</small>	
	All Grades (%)	Grades 3 and 4 ^b (%)	All Grades (%)	Grades 3 and 4 ^b (%) <small>s432_c4 s433_c8 s434_c4</small>
General Disorders and Administration Site Conditions <small>s435_c6</small>				
Fatigue ^c	43	3	46	6 <small>s436_c5</small>
Pyrexia ^c	18	4	30	0 <small>s437_c5</small>
Peripheral edema ^c	13	1	15	1 <small>s438_c6</small>
Gastrointestinal Disorders <small>s439_c2</small>				
Nausea	41	2	34	2 <small>s440_c5</small>
Diarrhea	36	3	34	2 <small>s441_c5</small>
Vomiting ^c	30	2	16	1 <small>s442_c5</small>
Abdominal pain ^c	28	4	16	1 <small>s443_c6</small>
Constipation	22	0	6	1 <small>s444_c5</small>
Skin and Subcutaneous Tissue Disorders <small>s445_c5</small>				
Rash ^c	22	1	53	13 <small>s446_c5</small>
Nervous System Disorders <small>s447_c3</small>				
Dizziness ^c	15	3	4	0 <small>s448_c5</small>
Visual Disorders <small>s449_c2</small>				
Visual impairment ^c	20	0	4	0 <small>s450_c6</small>
Serous retinopathy/RPED ^c	20	3	2	0 <small>s451_c6</small>
Vascular Disorders <small>s452_c2</small>				
Hemorrhage ^c	19	3	9	2 <small>s453_c5</small>
Hypertension ^c	11	6	11	3 <small>s454_c5</small>

a. Grades per National Cancer Institute CTCAE v4.03. s455_c8

b. Grade 4 adverse reactions limited to diarrhea (n=1) and hemorrhage (n=3) in the MEKTOVI with encorafenib arm and constipation (n=1) in the vemurafenib arm. s456_c21 s457_c4

c. Represents a composite of multiple, related preferred terms. s458_c9

Other clinically important adverse reactions occurring in <10% of patients who received MEKTOVI in combination with encorafenib were: s459_c14 s460_c4

Gastrointestinal disorders: *Colitis* s461_c3

Skin and subcutaneous tissue disorders: *Panniculitis, Photosensitivity* s462_c7

Immune system disorders: *Drug hypersensitivity* s463_c5

Table 4: Laboratory Abnormalities Occurring in ≥10% (All grades) of Patients Receiving MEKTOVI in Combination with Encorafenib in COLUMBUS^a

Laboratory Abnormality	MEKTOVI with encorafenib N=192		Vemurafenib N=186	
	All Grades (%)	Grades 3 and 4 (%)	All Grades (%)	Grades 3 and 4 (%)
Hematology				
Anemia	36	3.6	34	2.2
Leukopenia	13	0	10	0.5
Lymphopenia	13	2.1	30	7
Neutropenia	13	3.1	4.8	0.5
Chemistry				
Increased Creatinine	93	3.6	92	1.1
Increased Creatine Phosphokinase	58	5	3.8	0
Increased Gamma Glutamyl Transferase	45	11	34	4.8
Increased ALT	29	6	27	2.2
Increased AST	27	2.6	24	1.6
Increased Alkaline Phosphatase	21	0.5	35	2.2
Hyponatremia	18	3.6	15	0.5

a. Grades per National Cancer Institute CTCAE v4.03.

BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer (NSCLC)

The safety of MEKTOVI in combination with encorafenib is described in 98 patients with *BRAF V600E* mutation-positive metastatic NSCLC who received MEKTOVI (45 mg twice daily) in combination with encorafenib (450 mg once daily) in an open-label, single-arm trial (PHAROS).

The PHAROS trial [see *Clinical Studies (14.2)*] excluded patients with abnormal LVEF, prolonged QTc (>480 ms), uncontrolled hypertension, and history or current evidence of retinal vein occlusion. The median duration of treatment for MEKTOVI and encorafenib was 8.4 and 9.2 months respectively.

The most common (≥25%) adverse reactions in patients receiving MEKTOVI were fatigue, nausea, diarrhea, musculoskeletal pain, vomiting, abdominal pain, visual impairment, constipation, dyspnea, rash, and cough.

Adverse reactions leading to dose interruptions of MEKTOVI occurred in 62% of patients receiving MEKTOVI; the most common (≥5%) were diarrhea (17%); nausea (15%); fatigue (9%); AST increased (7%); ALT increased, anemia, musculoskeletal pain, vomiting (6% each); and acute kidney injury, hemorrhage, and LV dysfunction/cardiomyopathy (5% each). Adverse reactions leading to dose reductions of MEKTOVI occurred in 33% of patients receiving MEKTOVI; the most common (≥5%) were diarrhea (8%), nausea (6%), and AST increased (5%). A total of 17% of patients receiving MEKTOVI experienced an adverse reaction that resulted in permanent discontinuation of MEKTOVI; the most common (≥2%) were diarrhea (3.1%); musculoskeletal pain, LV dysfunction/cardiomyopathy, fatigue, nausea, rash, visual impairment, and vomiting (2% each). None of the other adverse reactions leading to permanent discontinuation of MEKTOVI occurred in more than 1 patient.

Serious adverse reactions occurred in 38% of patients who received MEKTOVI in combination with encorafenib. Serious adverse reactions in ≥2% of patients included hemorrhage (6%); diarrhea (4.1%); anemia, dyspnea, pneumonia (3.1% each); arrhythmia, device related infection, edema, myocardial infarction, and pleural effusion (2% each). Fatal adverse reactions occurred in 2% of patients who received MEKTOVI (45 mg twice daily) in combination with encorafenib, including intracranial hemorrhage and myocardial infarction (1% each).

Table 5 and Table 6 present adverse drug reactions and laboratory abnormalities, respectively, identified in PHAROS. s519_c15

Table 5: Adverse Reactions Occurring in $\geq 10\%$ of Patients Receiving MEKTOVI in Combination with Encorafenib in PHAROS^a s521_c12 s522_c5

Adverse Reaction	MEKTOVI s523_c1 with encorafenib s524_c2 N=98 s525_c3	
	All Grades (%) s528_c1	Grade 3 and 4 ^b (%) s527_c2 s526_c5
General Disorders and Administration Site Conditions s529_c6		
Fatigue ^c	61	8 s530_c3
Edema ^d	23	1 s531_c3
Pyrexia	22	0 s532_c3
Gastrointestinal Disorders s533_c2		
Nausea	58	3.1 s534_c3
Diarrhea ^e	52	7 s535_c3
Vomiting	37	1 s536_c3
Abdominal pain ^f	32	1 s537_c4
Constipation	27	0 s538_c3
Eye Disorders s539_c2		
Visual impairment ^g	29	2 s540_c4
Musculoskeletal and Connective Tissue Disorders s541_c5		
Musculoskeletal pain ^h	48	4.1 s542_c4
Skin and Subcutaneous Tissue Disorders s543_c5		
Rash ⁱ	27	3.1 s544_c3
Pruritis ^j	16	0 s545_c3
Dry skin	13	0 s546_c4
Alopecia	12	0 s547_c3
Respiratory, Thoracic and Mediastinal Disorders s548_c5		
Dyspnea ^k	27	8 s549_c3
Cough ^l	26	0 s550_c3
Nervous System Disorders s551_c3		
Dizziness ^m	17	1 s552_c3
Headache	11	0 s553_c3
Metabolism and Nutrition Disorders s554_c4		
Decreased appetite	14	1 s555_c4
Vascular Disorders s556_c2		
Hemorrhage ^{b,n}	12	4.1 s557_c3
Hypertension	10	5 s558_c3
Cardiac Disorders s559_c2		
Left ventricular dysfunction/cardiomyopathy ^o	11	1 s560_c5
Investigations s561_c1		
Weight increased	11	1 s562_c4
Psychiatric Disorders s563_c2		
Insomnia	10	0 s564_c3

a. Grades per National Cancer Institute CTCAE v4.03. s565_c8

b. One Grade 5 adverse reaction of hemorrhage occurred. s566_c9

- c. Fatigue includes fatigue, asthenia. s568_c5
- d. Edema includes edema peripheral, generalized edema, swelling, localized edema, face edema. s569_c12
- e. Diarrhea includes diarrhea, colitis. s570_c5
- f. Abdominal pain includes abdominal pain, abdominal pain upper, abdominal discomfort, epigastric discomfort. s571_c13
- g. Visual impairment includes vision blurred, visual impairment, vitreous floaters, photophobia, visual acuity reduced, photopsia. s572_c15
- h. Musculoskeletal pain includes back pain, arthralgia, pain in extremity, myalgia, musculoskeletal chest pain, non-cardiac chest pain, neck pain. s573_c19
- i. Rash includes rash, rash macular, rash maculo-papular, rash papular, rash pustular, dermatitis acneiform, palmar-plantar erythrodysesthesia syndrome, eczema, skin exfoliation. s574_c15
- j. Pruritis includes pruritus, pruritus genital. s575_c4
- k. Dyspnea includes dyspnea, dyspnea exertional. s576_c6
- l. Cough includes cough, productive cough. s577_c6
- m. Dizziness includes dizziness, balance disorder. s578_c6
- n. Hemorrhage includes anal hemorrhage, hemothorax, gastrointestinal hemorrhage, hematochezia, hematuria, hemoptysis, hemorrhage intracranial, hyphema, small intestinal hemorrhage, upper gastrointestinal hemorrhage, vaginal hemorrhage. s579_c6
- o. Left ventricular dysfunction/cardiomyopathy includes ejection fraction decreased, cardiac failure, cardiac failure congestive. s580_c12

Other clinically important adverse reactions occurring in <10% of patients who received MEKTOVI in combination with encorafenib were: s581_c10 s582_c13 s583_c14 s584_c4

Nervous system disorders: *Peripheral neuropathy, Dysgeusia, Facial paresis* s585_c8

Gastrointestinal disorders: *Pancreatitis* s586_c3

Skin and subcutaneous tissue disorders: *Hyperkeratosis, Erythema, Photosensitivity* s587_c8

Immune system disorders: *Drug hypersensitivity* s588_c5

Table 6: Laboratory Abnormalities Occurring in ≥10% (All Grades) of Patients Receiving MEKTOVI with Encorafenib in PHAROS^a s589_c12 s590_c5

Laboratory Abnormality ^b	MEKTOVI with encorafenib s591_c3	
	All Grades (%)	Grades 3 and 4 (%) s592_c2 s593_c6 s594_c2
Hematology s595_c1		
Anemia	47	11 s596_c3
Lymphopenia	24	6 s597_c3
Thrombocytopenia	20	1.1 s598_c3
Leukopenia	12	0 s599_c3
Neutropenia	12	1.1 s600_c3
Chemistry s601_c1		
Increased creatinine	91	3.2 s602_c4
Hyperglycemia	48	6 s603_c3
Increased creatine kinase	41	3.3 s604_c5
Lipase increased	40	14 s605_c4
Increased ALT	34	9 s606_c4
Hypoalbuminemia	32	0 s607_c3
Increased AST	31	10 s608_c4
Increased alkaline phosphatase	31	3.2 s609_c5
Hyperkalemia	31	2.1 s610_c3
Hyponatremia	26	11 s611_c3
Serum amylase increased	22	1.1 s612_c5
Hypocalcemia	12	2.1 s613_c3

a. Grades per National Cancer Institute CTCAE v4.03. s614_c8

b. Based on the number of patients with available baseline and at least one on-treatment laboratory test. s615_c17

To report any side effect(s): s617_c5

Egypt: s618_c1

Pharmacovigilance center, Pfizer Pharmaceutical Company: EGY.AEReporting@pfizer.com s619_c6

Egyptian Pharmacovigilance center (EPVC), EDA: pv.followup@edaegypt.gov.eg s620_c6

7 DRUG INTERACTIONS s621_c3

No clinically important drug interactions have been observed with MEKTOVI. s622_c10

8 USE IN SPECIFIC POPULATIONS s623_c5

8.1 Pregnancy s624_c2

Risk Summary s625_c2

Based on findings from animal reproduction studies and its mechanism of action [*see Clinical Pharmacology (12.1)*], MEKTOVI can cause fetal harm when administered to a pregnant woman. There are no available clinical data on the use of MEKTOVI during pregnancy. In animal reproduction studies, oral administration of binimetinib during the period of organogenesis was embryotoxic and an abortifacient in rabbits at doses greater than or equal to those resulting in exposures approximately 5 times the human exposure at the clinical dose of 45 mg twice daily (*see Data*). Advise pregnant women and females of reproductive potential of the potential risk to a fetus. s626_c14 s627_c15 s628_c15 s630_c14 s631_c16 s633_c16 s635_c9

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. s636_c16 s637_c12

Data s638_c1

Animal Data s639_c2

In reproductive toxicity studies, administration of binimetinib to rats during the period of organogenesis resulted in maternal toxicity, decreased fetal weights and increased variations in ossification at doses ≥ 30 mg/kg/day (approximately 37 times the human exposure based on AUC at the recommended clinical dose of 45 mg twice daily). In pregnant rabbits, administration of binimetinib during the period of organogenesis resulted in maternal toxicity, decreased fetal body weights, an increase in malformations, and increased post-implantation loss, including total loss of pregnancy at doses ≥ 10 mg/kg/day (approximately 5 times the human exposure based on AUC at the recommended clinical dose of 45 mg twice daily). There was a significant increase in fetal ventricular septal defects and pulmonary trunk alterations at 20 mg/kg/day of binimetinib (less than 8 times the human exposure at the recommended clinical dose of 45 mg twice daily). s640_c14 s641_c14 s642_c14 s644_c15 s646_c14 s647_c12 s649_c17 s651_c16 s652_c16 s654_c1

8.2 Lactation s655_c2

Risk Summary s656_c2

There are no data on the presence of binimetinib or its active metabolite in human milk, or the effects of binimetinib on the breastfed child, or the effects on milk production. Because of the potential for serious adverse reactions in a breastfed child, advise women not to breastfeed during treatment with MEKTOVI and for 3 days after the last dose. s657_c19 s659_c17 s660_c16 s661_c7

8.3 Females and Males of Reproductive Potential s662_c7

Based on animal data, MEKTOVI can cause fetal harm when administered to a pregnant woman [*see Use in Specific Populations (8.1)*]. s663_c18 s664_c3

Pregnancy Testing s665_c2

Verify the pregnancy status of females of reproductive potential prior to initiating MEKTOVI [*see Use in Specific Populations (8.1)*]. s666_c15 s668_c3

Contraception s669_c1

Females s670_c1

Advise females of reproductive potential to use effective contraception during treatment with MEKTOVI and for 30 days after the last dose. s672_c13 s673_c8

8.4 Pediatric Use s674_c3

The safety and effectiveness of MEKTOVI have not been established in pediatric patients. s675_c13

8.5 Geriatric Use s676_c3

Of the 690 patients with BRAF mutation-positive melanoma who received MEKTOVI in combination with encorafenib across multiple clinical trials, 20% were aged 65 to 74 years and 8% were aged 75 years and older [see *Clinical Pharmacology* (12.3)]. s677_c14 s678_c17 s680_c5

Of the 98 patients with BRAF V600E mutation-positive metastatic NSCLC who received MEKTOVI in combination with encorafenib, 62 (63.2%) were 65 years of age and over and 20 (20.4%) were 75 years and over [see *Clinical Studies* (14.2)]. s681_c14 s682_c16 s684_c5

No overall differences in the safety or effectiveness of MEKTOVI plus encorafenib were observed in older patients as compared to younger patients. s685_c16 s686_c6

8.6 Hepatic Impairment s687_c3

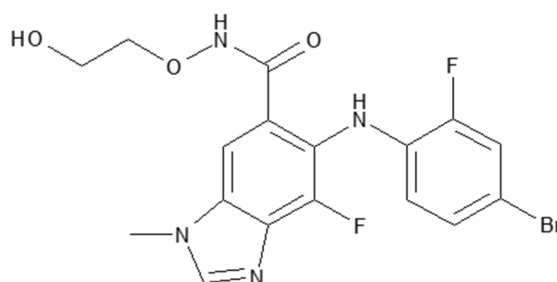
Binimetinib concentrations may increase in patients with moderate or severe hepatic impairment. Dose adjustment for MEKTOVI is not recommended in patients with mild hepatic impairment (total bilirubin >1 and $\leq 1.5 \times$ ULN and any AST or total bilirubin \leq ULN and AST $>$ ULN). Reduce the dose of MEKTOVI for patients with moderate (total bilirubin >1.5 and $\leq 3 \times$ ULN and any AST) or severe (total bilirubin levels $>3 \times$ ULN and any AST) hepatic impairment [see *Dosage and Administration* (2.4), *Clinical Pharmacology* (12.3)]. s688_c12 s689_c15 s690_c15 s691_c20 s692_c1 s693_c18 s694_c21 s695_c14 s697_c1

10 OVERDOSAGE s698_c2

Since binimetinib is 97% bound to plasma proteins, hemodialysis is likely to be ineffective in the treatment of overdose with MEKTOVI. s699_c17 s700_c4

11 DESCRIPTION s701_c2

Binimetinib is a kinase inhibitor. The chemical name is 5-[(4-bromo-2-fluorophenyl)amino]-4-fluoro-N-(2-hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide. The molecular formula is $C_{17}H_{15}BrF_2N_4O_3$ and the molecular weight is 441.2 daltons. The chemical structure of binimetinib is shown below: s702_c10 s703_c7 s704_c14



Binimetinib is a white to slightly yellow powder. In aqueous media, binimetinib is slightly soluble at pH 1, very slightly soluble at pH 2, and practically insoluble at pH 4.5 and higher. s705_c17 s706_c1 s707_c13

MEKTOVI (binimetinib) tablets for oral use contain 15 mg of binimetinib with the following inactive ingredients: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, magnesium stearate (vegetable origin), and silica colloidal anhydrous. The film-coating contains polyvinyl alcohol, macrogol, titanium dioxide, talc, iron oxide yellow, and iron oxide black. s709_c14 s710_c1 s711_c9 s712_c12 s713_c10

12 CLINICAL PHARMACOLOGY s714_c3

12.1 Mechanism of Action s715_c4

Binimetinib is a reversible inhibitor of mitogen-activated extracellular signal regulated kinase 1 (MEK1) and MEK2 activity. MEK proteins are upstream regulators of the extracellular signal-related kinase (ERK) pathway. In vitro, binimetinib inhibited extracellular signal-related kinase (ERK) phosphorylation in cell- s716_c14 s717_c13 s718_c12

free assays as well as viability and MEK-dependent phosphorylation of BRAF-mutant human melanoma cell lines. Binimetinib also inhibited in vivo ERK phosphorylation and tumor growth in BRAF-mutant murine xenograft models.

Binimetinib and encorafenib target two different kinases in the RAS/RAF/MEK/ERK pathway. Compared to either drug alone, coadministration of encorafenib and binimetinib resulted in greater anti-proliferative activity in vitro in BRAF mutation-positive cell lines and greater anti-tumor activity with respect to tumor growth inhibition in *BRAF V600E* mutant human melanoma xenograft studies in mice. Additionally, the combination of binimetinib and encorafenib delayed the emergence of resistance in *BRAF V600E* mutant human melanoma xenografts in mice compared to either drug alone. In a *BRAF V600E* mutant NSCLC patient-derived xenograft model in mice, coadministration of encorafenib and binimetinib resulted in greater anti-tumor activity compared to binimetinib alone, with respect to tumor growth inhibition. Increased tumor growth delay after dosing cessation was also observed with the coadministration compared to either drug alone.

12.2 Pharmacodynamics

Cardiac Electrophysiology

Following MEKTOVI 45 mg twice daily, no clinically meaningful QT prolongation was observed.

12.3 Pharmacokinetics

The pharmacokinetics of binimetinib was studied in healthy subjects and patients with solid tumors. After twice-daily dosing, the accumulation is 1.5-fold and the coefficient of variation (CV%) of the area under the concentration-time curve (AUC) is <40% at steady state. The systemic exposure of binimetinib is approximately dose proportional.

Absorption

After oral administration, at least 50% of the binimetinib dose was absorbed with a median time to maximum concentration (T_{max}) of 1.6 hours.

Effect of Food

The administration of a single dose of MEKTOVI 45 mg with a high-fat, high-calorie meal (consisting of approximately 150 calories from protein, 350 calories from carbohydrate, and 500 calories from fat) in healthy subjects had no effect on binimetinib exposure.

Distribution

Binimetinib is 97% bound to human plasma proteins and the blood-to-plasma ratio is 0.72. The geometric mean (CV%) of apparent volume of distribution of binimetinib is 92 L (45%).

Elimination

The mean (CV%) terminal half-life ($t_{1/2}$) of binimetinib is 3.5 hours (28.5%) and apparent clearance (CL/F) is 20.2 L/h (24%).

Metabolism

The primary metabolic pathway is glucuronidation with UGT1A1 contributing up to 61% of the binimetinib metabolism. Other pathways of binimetinib metabolism include N-dealkylation, amide hydrolysis, and loss of ethane-diol from the side chain. The active metabolite M3 produced by CYP1A2 and CYP2C19 represents 8.6% of the binimetinib exposure. Following a single oral dose of 45 mg radiolabeled binimetinib, approximately 60% of the circulating radioactivity AUC in plasma was attributable to binimetinib.

Excretion

Following a single oral dose of 45 mg radiolabeled binimetinib in healthy subjects, 62% (32% unchanged) of the administered dose was recovered in the feces while 31% (6.5% unchanged) was recovered in the urine.

Specific Populations

Age (20 to 94 years), sex, or body weight do not have a clinically important effect on the systemic exposure of binimetinib. The effect of race or ethnicity on the pharmacokinetics of binimetinib is unknown.

Hepatic Impairment: No clinically meaningful changes in binimetinib exposure (AUC and C_{max}) were observed in subjects with mild hepatic impairment (total bilirubin >1 and $\leq 1.5 \times$ ULN and any AST or total bilirubin \leq ULN and AST $>$ ULN) as compared to subjects with normal liver function (total bilirubin \leq ULN and AST \leq ULN). A 2-fold increase in AUC was observed in subjects with moderate (total bilirubin >1.5 and $\leq 3 \times$ ULN and any AST) or severe (total bilirubin levels $>3 \times$ ULN and any AST) hepatic impairment [see Dosage and Administration (2.4)].

Renal Impairment: In subjects with severe renal impairment ($eGFR \leq 29$ mL/min/1.73 m²), no clinically important changes in binimetinib exposure were observed as compared to subjects with normal renal function.

Drug Interaction Studies

Clinical Studies

Effect of UGT1A1 Inducers or Inhibitors on Binimetinib: UGT1A1 genotype and smoking (UGT1A1 inducer) do not have a clinically important effect on binimetinib exposure. Simulations predict similar C_{max} of binimetinib 45 mg in the presence or absence of atazanavir 400 mg (UGT1A1 inhibitor).

No differences in binimetinib exposure have been observed when MEKTOVI is coadministered with encorafenib.

Effect of Binimetinib on CYP Substrates: Binimetinib did not alter the exposure of a sensitive CYP3A4 substrate (midazolam).

Effect of Acid Reducing Agents on Binimetinib: The extent of binimetinib exposure (AUC) was not altered in the presence of a gastric acid reducing agent (rabeprazole).

In Vitro Studies

Effect of Binimetinib on CYP Substrates: Binimetinib is not a time-dependent inhibitor of CYP1A2, CYP2C9, CYP2D6 or CYP3A.

Effect of Transporters on Binimetinib: Binimetinib is a substrate of P-glycoprotein (P-gp) and breast cancer resistance protein (BCRP). Binimetinib is not a substrate of organic anion transporting polypeptide (OATP1B1, OATP1B3, OATP2B1) or organic cation transporter 1 (OCT1).

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies with binimetinib have not been conducted. Binimetinib was not genotoxic in studies evaluating reverse mutations in bacteria, chromosomal aberrations in mammalian cells, or micronuclei in bone marrow of rats.

No dedicated fertility studies have been conducted with binimetinib in animals. In general toxicology studies in rats and monkeys, there were no remarkable findings in male or female reproductive organs.

14 CLINICAL STUDIES

14.1 BRAF V600E or V600K Mutation-Positive Unresectable or Metastatic Melanoma

MEKTOVI in combination with encorafenib was evaluated in a randomized, active-controlled, open-label, multicenter trial (COLUMBUS; NCT01909453). Eligible patients were required to have BRAF V600E or V600K mutation-positive unresectable or metastatic melanoma, as detected using the bioMerieux THxID™ BRAF assay. Patients were permitted to have received immunotherapy in the adjuvant setting and one prior line of immunotherapy for unresectable locally advanced or metastatic disease. Prior use of BRAF inhibitors or MEK inhibitors was prohibited. Randomization was stratified by American Joint Committee on Cancer (AJCC) Stage (IIIB, IIIC, IVM1a or IVM1b, versus IVM1c), Eastern Cooperative Oncology Group (ECOG) performance status (0 versus 1), and prior immunotherapy for unresectable or metastatic disease (yes versus no).

Patients were randomized (1:1:1) to receive MEKTOVI 45 mg twice daily in combination with encorafenib 450 mg once daily (MEKTOVI in combination with encorafenib), encorafenib 300 mg once daily, or vemurafenib 960 mg twice daily. Treatment continued until disease progression or unacceptable toxicity. Only the results of the approved dosing (MEKTOVI 45 mg in combination with encorafenib 450 mg) are described below.

The major efficacy outcome measure was progression-free survival (PFS), as assessed by a blinded independent central review, to compare MEKTOVI in combination with encorafenib with vemurafenib. Additional efficacy measures included overall survival (OS), as well as objective response rate (ORR) and duration of response (DoR) which were assessed by central review.

A total of 577 patients were randomized, 192 to the MEKTOVI in combination with encorafenib arm, 194 to the encorafenib arm, and 191 to the vemurafenib arm. Of the 383 patients randomized to either the MEKTOVI in combination with encorafenib or the vemurafenib arms, the median age was 56 years (20 to 89 years), 59% were male, 91% were White, and 72% had baseline ECOG performance status of 0. Ninety-five percent (95%) had metastatic disease, 65% were Stage IVM1c, and 4% received prior CTLA-4, PD-1, or PD-L1 directed antibodies. Twenty-eight percent (28%) had elevated baseline serum lactate dehydrogenase (LDH), 45% had ≥ 3 organs with tumor involvement at baseline, and 3% had brain metastases. Based on centralized testing, 100% of patients' tumors tested positive for BRAF mutations; *BRAF V600E* (88%), *BRAF V600K* (11%), or both (<1%).

MEKTOVI in combination with encorafenib demonstrated a statistically significant improvement in PFS compared to vemurafenib. Efficacy results are summarized in Table 7 and Figure 1.

Table 7: Efficacy Results for COLUMBUS

	MEKTOVI with encorafenib N=192	Vemurafenib N=191
Progression-Free Survival		
Number of events (%)	98 (51)	106 (55)
Progressive disease	88 (46)	104 (54)
Death	10 (5)	2 (1)
Median PFS, months (95% CI)	14.9 (11.0, 18.5)	7.3 (5.6, 8.2)
HR (95% CI) ^a	0.54 (0.41, 0.71)	
P value ^b	<0.0001	
Overall Survival ^c		
Number of events (%)	139 (72)	147 (77)
Median OS, months (95% CI)	33.6 (24.4, 39.2)	16.9 (14.0, 24.5)
HR (95% CI) ^a	0.67 (0.53, 0.84)	
Overall Response Rate		
ORR (95% CI)	63% (56%, 70%)	40% (33%, 48%)
CR	8%	6%
PR	55%	35%
Duration of Response		
Median DoR, months (95% CI)	16.6 (12.2, 20.4)	12.3 (6.9, 16.9)

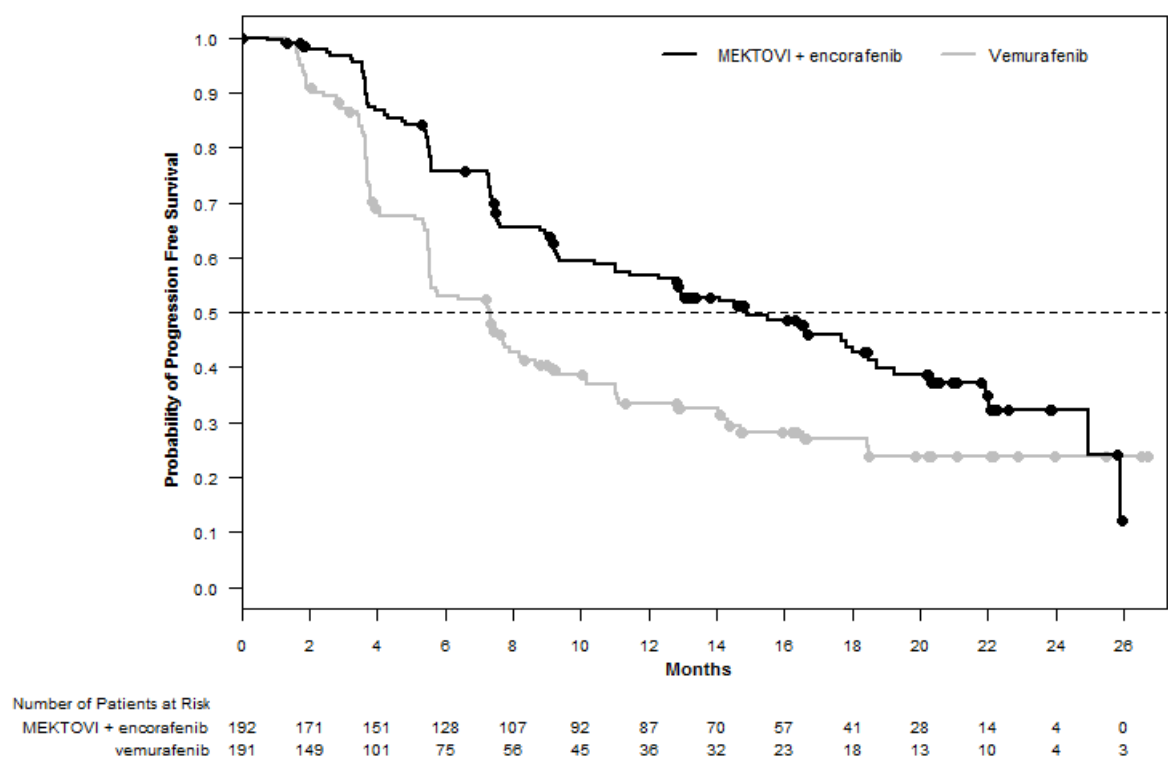
CI = Confidence interval; CR = Complete response; DoR = Duration of response; HR = Hazard ratio; NE = Not estimable; ORR = Overall response rate; OS = Overall survival; PFS = Progression-free survival; PR = Partial response.

a. Estimated with Cox proportional hazard model adjusted by the following stratification factors: American Joint Committee on Cancer (AJCC) Stage (IIIB, IIIC, IVM1a or IVM1b, versus IVM1c) and Eastern Cooperative Oncology Group (ECOG) performance status (0 versus 1).

b. Log-rank test adjusted by the same stratification factors.

c. Based on a cutoff date 82.4 months after the date of PFS analysis.

Figure 1: Kaplan-Meier Curves for Progression-Free Survival in COLUMBUS



14.2 BRAF V600E Mutation-Positive Metastatic Non-Small Cell Lung Cancer

MEKTOVI in combination with encorafenib was evaluated in an open-label, multicenter, single-arm study in patients with *BRAF V600E* mutation-positive metastatic non-small cell lung cancer (NSCLC) (PHAROS; NCT03915951). Eligible patients had a diagnosis of histologically-confirmed metastatic NSCLC with *BRAF V600E* mutation that was treatment-naïve or had been previously treated with 1 prior line of systemic therapy in the metastatic setting (platinum-based chemotherapy and/or anti-PD-1/PD-L1 therapies), age 18 years or older, Eastern Cooperative Oncology Group (ECOG) performance status (PS) of 0 or 1, and measurable disease as defined by Response Evaluation Criteria in Solid Tumors (RECIST) v1.1. Prior use of BRAF inhibitors or MEK inhibitors was not allowed.

Patients received MEKTOVI 45 mg orally twice daily and encorafenib 450 mg once daily until disease progression or unacceptable toxicity. The major efficacy outcome measures were objective response rate (ORR) per RECIST v1.1 and duration of response (DoR) as assessed by independent review committee (IRC).

In the efficacy population, *BRAF V600E* mutation status was determined by prospective local testing using tumor tissue (78%) or blood (22%) specimens. Of the 98 patients with *BRAF V600E* mutation, 6 patients were enrolled into the trial based on testing of their tumor tissue specimens with the FoundationOne CDx tissue test. Of the remaining 92 patients enrolled based on local testing, 68 patients had their tumor tissue specimens retrospectively confirmed as having *BRAF V600E* positive status by the FoundationOne CDx tissue test. The remaining patients had either *BRAF V600E* negative status (n=5) or had unevaluable results (n=19) by the FoundationOne CDx tissue test. In addition, plasma samples from 81 out of 98 patients were retrospectively tested using the FoundationOne Liquid CDx assay. Of the 81 patients, 48 were confirmed positive for *BRAF V600E*, while 33 patients were *BRAF V600E* mutation negative by FoundationOne Liquid CDx assay. The remaining 17 samples had unevaluable results with FoundationOne Liquid CDx assay.

The efficacy population included 59 treatment-naïve patients and 39 previously-treated patients. Among these 98 patients, the median age was 70 years (range: 47 to 86); 53% female; 88% White, 7% Asian, 3% Black or African American, and 1% American Indian or Alaska Native; 99% were not Hispanic or Latino; 13% were current smokers and 57% were former smokers; 73% had ECOG PS of 1; and 97% had adenocarcinoma. All patients had metastatic disease and 8% had brain metastases at baseline.

Efficacy results for patients with *BRAF V600E* mutation-positive metastatic NSCLC are summarized in Table 8. s935_c13 s936_c2

Table 8: Efficacy Results for PHAROS s937_c6

	MEKTOVI with encorafenib s938_c3	
Efficacy Parameter	Treatment naïve (N=59)	Previously treated (N=39) s939_c6 s940_c2
Objective Response Rate^a s941_c3		
ORR (95% CI)	75% (62, 85)	46% (30, 63) s942_c9
CR	15%	10% s943_c3
PR	59%	36% s944_c3
Duration of Response^{a,b}	N=44	N=18 s945_c5
Range in months	1.4, 51.6+	3.8, 45.8+ s946_c7
% with DoR ≥12 months	64%	44% s947_c7
% with DoR ≥24 months	43%	22% s948_c7

CI = Confidence interval; CR = Complete response; DoR = Duration of response; N = Number of patients; NE = Not estimable; ORR = Objective response rate; PR = Partial response. s949_c24 s950_c7

a. Assessed by Independent Central Review (ICR). s951_c7

b. Based on observed duration of response. s952_c7

16 HOW SUPPLIED/STORAGE AND HANDLING s953_c5

MEKTOVI (binimetinib) is supplied as 15 mg yellow to dark yellow, unscored ovaloid biconvex film-coated tablets debossed with stylized “A” debossed on one side and “15” on the other side. s954_c13 s955_c1 s956_c1

Carton box containing 7 polyvinyl chloride/ polyvinylidene chloride blisters with aluminum foil backing, each blister containing 12 film coated tablets with insert leaflet. s957_c15 s958_c13 s959_c10

Store below 30°C. s960_c3

Shelf life: see outer pack. s961_c5

17 PATIENT COUNSELING INFORMATION s962_c4

Advise the patient to read the approved patient labeling (Medication Guide). s963_c11

Inform patients of the following: s964_c5

New Primary Malignancies s965_c3

Advise patients that MEKTOVI administered with encorafenib can result in the development of new primary cutaneous and non-cutaneous malignancies. Advise patients to contact their healthcare provider immediately for any new lesions, changes to existing lesions on their skin, or other signs and symptoms of malignancies [see *Warnings and Precautions* (5.1)]. s966_c14 s967_c12 s968_c17 s970_c6

Cardiomyopathy s971_c1

Advise patients to report any symptoms of heart failure to their healthcare provider [see *Warnings and Precautions* (5.2)]. s972_c15 s973_c1 s974_c2

Venous Thromboembolism s975_c2

Advise patients to contact their healthcare provider if they experience symptoms of venous thrombosis or pulmonary embolism. Advise patients to seek medical attention for sudden onset of difficulty breathing, leg pain, or swelling [see *Warnings and Precautions* (5.3)]. s976_c15 s977_c15 s978_c8

Ocular Toxicities s979_c2

Advise patients to contact their healthcare provider as soon as possible if they experience any changes in their vision [see *Warnings and Precautions* (5.4)]. s980_c16 s981_c1 s982_c7

Interstitial Lung Disease s983_c3

Advise patients to contact their healthcare provider if they experience any new or worsening respiratory symptoms including cough or dyspnea [see *Warnings and Precautions* (5.5)]. s984_c14 s985_c1 s986_c10

Hepatotoxicity s988_c1

Advise patients that serial testing of serum liver tests (ALT, AST, bilirubin) is recommended during treatment with MEKTOVI. Instruct patients to report symptoms of liver dysfunction including jaundice, dark urine, nausea, vomiting, loss of appetite, fatigue, bruising, or bleeding [see *Warnings and Precautions* (5.6)].

Rhabdomyolysis s993_c1

Advise patients to contact their healthcare provider as soon as possible if they experience unusual or new onset weakness, myalgia, or darkened urine [see *Warnings and Precautions* (5.7)].

Hemorrhage s996_c1

Advise patients to notify their healthcare provider if they experience symptoms suggestive of hemorrhage, such as unusual bleeding [see *Warnings and Precautions* (5.8)].

Females and Males of Reproductive Potential s999_c6

Embryo-Fetal Toxicity: Advise females with reproductive potential of the potential risk to a fetus. Advise females to contact their healthcare provider if they become pregnant, or if pregnancy is suspected, during treatment with MEKTOVI [see *Warnings and Precautions* (5.9), *Use in Specific Populations* (8.1)]. Advise females of reproductive potential to use effective contraception during treatment with MEKTOVI and for 30 days after the last dose.

Lactation: Advise women not to breastfeed during treatment with MEKTOVI and for 3 days after the last dose [see *Use in Specific Populations* (8.2)].

MARKETING AUTHORISATION HOLDER s1008_c3

Pfizer Europe MA EEIG
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1050 Bruxelles
Belgium

MANUFACTURER s1013_c1

See the outer label for Manufacturer Information s1014_c7

Revision Date: March 2025 s1015_c4

MEDICATION GUIDE s1017_c2
MEKTOVI® (mek-TOE-vee) s1018_c2
 (binimetinib) s1019_c1
 tablets s1020_c1

Important Information: If your healthcare provider prescribes MEKTOVI with encorafenib, please read the Medication Guide that comes with encorafenib. s1021_c13 s1022_c6

What is the most important information I should know about MEKTOVI when taken in combination with encorafenib? s1023_c16 s1024_c1

MEKTOVI when taken in combination with encorafenib may cause serious side effects, including: s1025_c13

- **Risk of new skin cancers.** MEKTOVI, when used with encorafenib, may cause skin cancers called cutaneous squamous cell carcinoma or basal cell carcinoma. s1026_c17 s1027_c7

Talk to your healthcare provider about your risk for these cancers. s1028_c11

Check your skin and tell your healthcare provider right away about any skin changes, including a: s1029_c16

- new wart s1030_c3
- skin sore or reddish bump that bleeds or does not heal s1031_c12
- change in size or color of a mole s1032_c9

Your healthcare provider should check your skin before treatment with MEKTOVI, when taken in combination with encorafenib, every 2 months during treatment, and for up to 6 months after you stop treatment to look for any new skin cancers. s1033_c15 s1034_c20 s1035_c4

Your healthcare provider should also check for cancers that may not occur on the skin. Tell your healthcare provider about any new symptoms that develop during treatment with MEKTOVI when taken in combination with encorafenib. s1036_c18 s1037_c15 s1038_c2

See **"What are the possible side effects of MEKTOVI?"** for more information about side effects. s1039_c15

What is MEKTOVI? s1040_c3

MEKTOVI is a prescription medicine used: s1041_c6

- in combination with a medicine called encorafenib to treat people with a type of skin cancer called melanoma: s1042_c19
 - that has spread to other parts of the body or cannot be removed by surgery, **and** s1043_c17
 - that has a certain type of abnormal "BRAF" gene s1044_c10
- in combination with a medicine called encorafenib to treat adults with a type of lung cancer called non-small cell lung cancer (NSCLC): s1045_c20 s1046_c3
 - that has spread to other parts of the body, **and** s1047_c11
 - that has a certain type of abnormal "BRAF" gene s1048_c10

Your healthcare provider will perform a test to make sure that MEKTOVI is right for you. s1049_c16

It is not known if MEKTOVI is safe and effective in children. s1050_c12

Before taking MEKTOVI, tell your healthcare provider about all of your medical conditions, including if you: s1051_c16

- have heart problems s1052_c4
- have had blood clots s1053_c5
- have eye problems s1054_c4
- have lung or breathing problems s1055_c6
- have liver or kidney problems s1056_c6
- have any muscle problems s1057_c5
- have bleeding problems s1058_c4
- have high blood pressure (hypertension) s1059_c6
- are pregnant or plan to become pregnant. MEKTOVI can harm your unborn baby. s1060_c14
 - Females who are able to become pregnant should use effective birth control (contraception) during treatment with MEKTOVI and for at least 30 days after the last dose of MEKTOVI. s1061_c15 s1062_c15
 - Talk to your healthcare provider about birth control methods that may be right for you during this time. s1063_c19
 - Your healthcare provider will do a pregnancy test before you start taking MEKTOVI. Tell your healthcare provider right away if you become pregnant or think you might be pregnant during treatment with MEKTOVI. s1064_c17 s1065_c16 s1066_c1

- are breastfeeding or plan to breastfeed. It is not known if MEKTOVI passes into your breast milk. Do not breastfeed during treatment with MEKTOVI and for 3 days after the last dose of MEKTOVI. Talk to your healthcare provider about the best way to feed your baby during this time.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I take MEKTOVI?

- Take MEKTOVI exactly as your healthcare provider tells you to take it. Do not change your dose or stop taking MEKTOVI unless your healthcare provider tells you to.
- Take MEKTOVI in combination with encorafenib by mouth 2 times a day, about 12 hours apart.
- MEKTOVI may be taken with or without food.
- If you miss a dose of MEKTOVI, take it as soon as you remember. If it is within 6 hours of your next scheduled dose, take your next dose at your regular time. Do not make up for the missed dose.
- Do not take an extra dose if you vomit after taking your scheduled dose. Take your next dose at your regular time.
- If you stop treatment with encorafenib, talk to your healthcare provider about whether your MEKTOVI treatment may need to be stopped.

What are the possible side effects of MEKTOVI?

MEKTOVI may cause serious side effects, including:

- **Heart problems, including heart failure.** MEKTOVI, when taken with encorafenib, can cause heart problems. Your healthcare provider should check your heart function before and during treatment with MEKTOVI. Call your healthcare provider right away if you have any of the following signs and symptoms of a heart problem:
 - feeling like your heart is pounding or racing
 - shortness of breath
 - swelling of your ankles and feet
 - feeling lightheaded
- **Blood clots.** MEKTOVI, when taken with encorafenib, can cause blood clots in your arms or legs, which can travel to your lungs and can lead to death. Get medical help right away if you have the following symptoms:
 - chest pain
 - sudden shortness of breath or trouble breathing
 - pain in your legs with or without swelling
 - swelling in your arms and legs
 - a cool pale arm or leg
- **Eye problems.** MEKTOVI, when taken with encorafenib, can cause eye problems. Your healthcare provider should perform an eye exam regularly during treatment with MEKTOVI. Tell your healthcare provider right away if you develop any new or worsening symptoms of eye problems, including:
 - blurred vision, loss of vision, or other vision changes
 - see colored dots
 - see halos (blurred outline around objects)
 - eye pain, swelling, or redness
- **Lung or breathing problems.** MEKTOVI, when taken with encorafenib, can cause lung or breathing problems. Tell your healthcare provider if you have any new or worsening symptoms of lung or breathing problems, including:
 - shortness of breath
 - cough
- **Liver problems.** MEKTOVI, when taken with encorafenib, can cause liver problems. Your healthcare provider should perform blood tests to check your liver function before and during treatment with MEKTOVI. Tell your healthcare provider if you have any of the following signs and symptoms of a liver problem:

◦ yellowing of your skin or your eyes	◦ tiredness
◦ dark or brown (tea-colored) urine	◦ bruising
◦ nausea or vomiting	◦ bleeding
◦ loss of appetite	
- **Muscle problems (rhabdomyolysis).** MEKTOVI, when taken with encorafenib, can cause muscle problems that can be severe. Treatment with MEKTOVI may increase the level of an enzyme in your blood called creatine phosphokinase (CPK) and can be a sign of muscle damage. Your healthcare provider should perform

a blood test to check your levels of CPK before and during treatment. Tell your healthcare provider right away if you develop any of these symptoms: s1126_c6

- weakness s1127_c2
- muscle aches or pain s1128_c5
- dark, reddish urine s1129_c4

- **Bleeding problems.** MEKTOVI, when taken with encorafenib, can cause serious bleeding problems, including in your brain or stomach, that can lead to death. Tell your healthcare provider and get medical help right away if you develop any signs of bleeding, including: s1132_c7

- headaches, dizziness, or feeling weak s1133_c6
- cough up blood or blood clots s1134_c7
- vomit blood or your vomit looks like “coffee grounds” s1135_c10
- red or black stool that look like tar s1136_c9

Your healthcare provider may change your dose, temporarily stop, or permanently stop treatment with MEKTOVI if you have certain side effects. s1138_c5

The most common side effects of MEKTOVI when taken with encorafenib for melanoma include: s1139_c14

- fatigue
- nausea
- diarrhea s1142_c2
- vomiting s1140_c4
- stomach-area (abdominal) pain s1141_c6

The most common side effects of MEKTOVI when taken with encorafenib for NSCLC include: s1143_c14

- fatigue
- nausea
- diarrhea
- muscle or joint pain
- vomiting
- stomach-area (abdominal) pain s1149_c4
- blurred vision, loss of vision, or other vision changes s1144_c12
- constipation s1145_c4
- shortness of breath s1146_c6
- rash s1147_c7
- cough s1148_c4

These are not all of the possible side effects of MEKTOVI. s1150_c11

Call your doctor for medical advice about side effects. s1151_c9

To report any side effect(s): s1152_c5

Egypt: s1153_c1

Pharmacovigilance center, Pfizer Pharmaceutical Company: EGY.AEReporting@pfizer.com s1154_c6

Egyptian Pharmacovigilance center (EPVC), EDA: pv.followup@edaegypt.gov.eg s1155_c6

How should I store MEKTOVI? s1156_c5

- Store MEKTOVI below 30°C. s1157_c5

Keep MEKTOVI and all medicines out of the reach of children. s1158_c11

General information about the safe and effective use of MEKTOVI. s1159_c10

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use MEKTOVI for a condition for which it was not prescribed. Do not give MEKTOVI to other people, even if they have the same symptoms that you have. It may harm them. You can ask your healthcare provider or pharmacist for information about MEKTOVI that is written for health professionals. s1160_c17 s1161_c21 s1162_c19

What are the ingredients in MEKTOVI? s1164_c6

Active ingredient: binimetinib s1165_c3

Inactive ingredients: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium, magnesium stearate (vegetable origin), and silica colloidal anhydrous. s1166_c9 s1167_c7

The film coating contains: polyvinyl alcohol, macrogol, titanium dioxide, talc, iron oxide yellow, iron oxide black. s1168_c16

MARKETING AUTHORISATION HOLDER Pfizer Europe MA EEIG s1169_c6

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Belgium s1172_c1

MANUFACTURER s1173_c1

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THIS IS A MEDICAMENT

- Medicament is a product which affects your health and its consumption contrary to instructions is dangerous for you.
- Follow strictly the doctor's prescription, the method of use and the instructions of the Pharmacist who sold the medicament.
- The doctor and the Pharmacist are experts in medicines, their benefits and risks.
- Do not by yourself interrupt the period of treatment prescribed.
- Do not repeat the same prescription without consulting your doctor.

Keep all medicaments out of reach and sight of children

Council of Arab Health Ministers

Union of Arabic Pharmacists