

ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS

▼ This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. NAME OF THE MEDICINAL PRODUCT

SOTYKTU 6 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains 6 mg of deucravacitinib.

Excipient with known effect

Each film-coated tablet contains 44 mg of lactose (see section 4.4).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet (tablet)

Pink, round, biconvex, film-coated tablet of 8 mm diameter, printed with “BMS 895”, and “6 mg” on one side in two lines, plain on the other side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

SOTYKTU is indicated for the treatment of moderate to severe plaque psoriasis in adults who are candidates for systemic therapy.

4.2 Posology and method of administration

Treatment should be initiated under the guidance and supervision of a physician experienced in the diagnosis and treatment of psoriasis.

Posology

The recommended dose is 6 mg taken orally once daily.

If a patient shows no evidence of therapeutic benefit after 24 weeks, treatment discontinuation should be considered. The patient's response to treatment should be evaluated on a regular basis.

Special populations

Elderly

No dose adjustment is required in elderly patients aged 65 years and older (see section 5.2). Clinical experience in patients ≥ 75 years is very limited and deucravacitinib should be used with caution in this group of patients.

Renal impairment

No dose adjustment is required in patients with renal impairment, including end stage renal disease (ESRD) patients on dialysis (see section 5.2).

Hepatic impairment

No dose adjustment is required in patients with mild or moderate hepatic impairment. Deucravacitinib is not recommended to be used in patients with severe hepatic impairment (see section 5.2).

Paediatric population

The safety and efficacy of deucravacitinib in children and adolescents below the age of 18 years have not yet been established. No data are available.

Method of administration

For oral use.

Tablets can be taken with or without food. Tablets should be swallowed whole and should not be crushed, cut, or chewed.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
Clinically important active infections (e.g. active tuberculosis, see section 4.4).

4.4 Special warnings and precautions for use

Infections

Deucravacitinib may increase the risk of infections (see section 4.8).

Treatment with deucravacitinib should not be initiated in patients with any clinically important active infection until the infection resolves or is adequately treated (see section 4.3). Caution should be exercised when considering the use of deucravacitinib in patients with a chronic infection or a history of recurrent infection.

Patients treated with deucravacitinib should be instructed to seek medical advice if signs or symptoms suggestive of an infection occur. If a patient develops a clinically important infection or is not responding to standard therapy, the patient should be monitored carefully and deucravacitinib should not be given until the infection resolves.

Pre-treatment evaluation for tuberculosis

Prior to initiating treatment with deucravacitinib, patients should be evaluated for tuberculosis (TB) infection. Deucravacitinib should not be given to patients with active TB (see section 4.3). Treatment of latent TB should be initiated prior to administering deucravacitinib. Anti-TB therapy should be considered prior to initiation of deucravacitinib in patients with a past history of latent or active TB in whom an adequate course of treatment cannot be confirmed. Patients receiving deucravacitinib should be monitored for signs and symptoms of active TB.

Malignancies

Malignancies, including lymphomas and non-melanoma skin cancer (NMSC), were observed in clinical studies with deucravacitinib.

It is not known whether tyrosine kinase 2 (TYK2) inhibition may be associated with the adverse reactions of Janus Kinase (JAK) inhibition. In a large randomised active controlled study of a JAK inhibitor in rheumatoid arthritis (RA) patients 50 years and older with at least one additional cardiovascular risk factor, a higher rate of malignancies, particularly lung cancer, lymphoma and NMSC, was observed with a JAK inhibitor compared to tumour necrosis factor (TNF) inhibitors.

Limited clinical data are available to assess the potential relationship of exposure to deucravacitinib and the development of malignancies. Long-term safety evaluations are ongoing. The risks and benefits of deucravacitinib treatment should be considered prior to initiating patients.

Major adverse cardiovascular events (MACE), deep venous thrombosis (DVT) and pulmonary embolism (PE)

It is not known whether TYK2 inhibition may be associated with the adverse reactions of JAK inhibition. In a large randomised active-controlled study of a JAK inhibitor in RA patients 50 years and older with at least one additional cardiovascular risk factor, a higher rate of MACE, defined as cardiovascular death, non-fatal myocardial infarction and non-fatal stroke, and a dose dependent higher rate of venous thromboembolism including DVT and PE were observed with a JAK inhibitor compared to TNF inhibitors.

An increased risk of MACE, DVT and PE was not observed in clinical trials with deucravacitinib. Long-term safety evaluations for deucravacitinib are ongoing. The risks and benefits of deucravacitinib treatment should be considered prior to initiating patients.

Immunisations

Prior to initiating therapy with deucravacitinib, consider completion of all age-appropriate immunisations according to current immunisation guidelines. Use of live vaccines in patients being treated with deucravacitinib should be avoided. The response to live or non-live vaccines has not been evaluated.

Excipients

Lactose

This medicinal product contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

Clinical studies indicate that deucravacitinib does not have clinically relevant drug interactions upon coadministration with the following other medicinal products and therefore no dose adjustments are needed.

Effect of deucravacitinib on other medicinal products

Deucravacitinib does not meaningfully impact plasma exposures of rosuvastatin (BCRP and OATP substrate), methotrexate (substrate of BCRP and renal transporters), mycophenolate mofetil (MMF) (CES1 and CES2 substrate), or oral contraceptives (norethindrone acetate and ethinyl estradiol).

Effect of other medicinal products on deucravacitinib

Medicinal products that are inhibitors or inducers of CYP enzymes or transporters such as cyclosporine (dual P-gp/breast cancer resistance protein [BCRP] inhibitor), fluvoxamine (strong CYP 1A2 inhibitor), ritonavir (moderate CYP 1A2 inducer), diflunisal (UGT 1A9 inhibitor), pyrimethamine (OCT1 inhibitor), famotidine (H2 receptor antagonist) or rabeprazole (proton pump inhibitor) do not meaningfully affect plasma deucravacitinib exposures (see section 5.2).

4.6 Fertility, pregnancy and lactation

Pregnancy

There is a limited amount of data on the use of deucravacitinib in pregnant women. Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity (see section 5.3). As a precautionary measure, it is preferable to avoid the use of deucravacitinib during pregnancy.

Breast-feeding

It is unknown whether deucravacitinib/metabolites are excreted in human milk. Available data in animals have shown excretion of deucravacitinib in milk (see section 5.3).

A risk to the newborns/infants by breast-feeding cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from deucravacitinib therapy taking into account the benefit of breast feeding for the child and the benefit of therapy for the woman.

Fertility

The effect of deucravacitinib on human fertility has not been evaluated. Animal studies do not indicate direct or indirect harmful effects with respect to fertility (see section 5.3).

4.7 Effects on ability to drive and use machines

Deucravacitinib has no or negligible influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile

The most commonly reported adverse reaction is upper respiratory infections (18.9%), most frequently nasopharyngitis. The longer-term safety profile of deucravacitinib was similar and consistent with previous experience.

Tabulated list of adverse reactions

The following list of adverse reactions for deucravacitinib is from clinical trials in plaque psoriasis (Table 1). These reactions are presented by MedDRA System Organ Class and by frequency.

Frequencies are defined as: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($< 1/10,000$); not known (cannot be estimated from the available data).

Table 1: List of adverse reactions

System Organ Class	Frequency	Adverse reaction
Infections and infestations	Very common	Upper respiratory infections ^a
	Common	Herpes simplex infections ^b
	Uncommon	Herpes zoster
Gastrointestinal disorders	Common	Oral ulcers ^c
Skin and subcutaneous tissue disorders	Common	Acneiform rash ^d Folliculitis
Investigations	Common	Blood creatine phosphokinase increased
^a Upper respiratory infections include nasopharyngitis, upper respiratory tract infection, viral upper respiratory tract infection, pharyngitis, sinusitis, acute sinusitis, rhinitis, tonsillitis, peritonsillar abscess, laryngitis, tracheitis, and rhinotracheitis. ^b Herpes simplex infections include oral herpes, herpes simplex, genital herpes, and herpes viral infection. ^c Oral ulcers include aphthous ulcer, mouth ulceration, tongue ulceration, and stomatitis. ^d Acneiform rash includes acne, dermatitis acneiform, rash, rosacea, pustule, rash pustular, and papule.		

Description of selected adverse reactions

Infections

In POETYK PSO-1 and POETYK PSO-2 (see section 5.1), infections occurred in 29.1% of patients in the deucravacitinib group (116.0 events per 100 person-years) compared to 21.5% of patients in the placebo group (83.7 events per 100 person-years) during the first 16 weeks. The majority of infections were non-serious and mild to moderate in severity and did not lead to discontinuation of deucravacitinib. The incidence of serious infections in the deucravacitinib group was 0.6% (2.0 events per 100 person-years) and in the placebo group was 0.5% (1.6 events per 100 person-years).

The rate of infections in the deucravacitinib group did not increase through week 52 (95.4 events per 100 person-years). The rate of serious infections in the deucravacitinib group did not increase through week 52 (1.7 events per 100 person-years).

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via **the national reporting system** listed in [Appendix V](#).

4.9 Overdose

Deucravacitinib has been administered in healthy subjects as single doses up to 40 mg (>6 times the recommended human dose of 6 mg/day) and in multiple doses up to 24 mg/day (12 mg twice daily) for 14 days without dose-limiting toxicity.

In case of overdose, it is recommended that the patient be monitored for any signs or symptoms of adverse reactions and appropriate symptomatic treatment instituted immediately. Dialysis does not substantially clear deucravacitinib from systemic circulation (see section 5.2).

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Immunosuppressants, ATC code: L04AF07

Mechanism of action

Deucravacitinib selectively inhibits the TYK2 enzyme (TYK2 belongs to the JAK family). Deucravacitinib binds to the regulatory domain of TYK2, stabilizing an inhibitory interaction between the regulatory and the catalytic domains of the enzyme. This results in allosteric inhibition of receptor-mediated activation of TYK2 and its downstream functions in cells. TYK2 mediates signalling of interleukin-23 (IL-23), interleukin-12 (IL-12), and type I interferons (IFN), which are naturally occurring cytokines involved in inflammatory and immune responses. Deucravacitinib inhibits the release of proinflammatory cytokines and chemokines.

Pharmacodynamic effects

In patients with psoriasis, deucravacitinib reduced psoriasis associated gene expression in psoriatic skin including reductions in IL-23-pathway and type I IFN pathway regulated genes. Deucravacitinib reduced IL-17A, IL-19 and β -defensin by 47-50%, 72% and 81-84%, respectively following 16 weeks of once daily treatment.

Clinical efficacy and safety

The efficacy and safety of deucravacitinib were assessed in two multicentre, randomised, double-blind, placebo- and apremilast-controlled clinical studies (POETYK PSO-1 and POETYK PSO-2) in patients who were 18 years of age and older with moderate-to-severe plaque psoriasis and were eligible for systemic therapy or phototherapy. Patients had body surface area (BSA) involvement of $\geq 10\%$, a Psoriasis Area and Severity Index (PASI) score ≥ 12 , and a static Physician's Global Assessment (sPGA) ≥ 3 (moderate or severe) on a 5-point scale of overall disease severity.

POETYK PSO-1 and POETYK PSO-2 evaluated a total of 1686 patients with 843 randomised to deucravacitinib 6 mg once daily, 422 to apremilast 30 mg twice daily, and 421 to placebo.

In both studies, patients receiving placebo switched to deucravacitinib at week 16, which continued up to week 52. Patients randomised to apremilast who did not achieve a PASI 50 (POETYK PSO-1) or PASI 75 (POETYK PSO-2) response at week 24 switched to deucravacitinib, and continued up to week 52. In POETYK PSO-1 patients who were randomised to deucravacitinib continued treatment up to week 52. In POETYK PSO-2, deucravacitinib treated patients who achieved PASI 75 at week 24 were re-randomised 1:1 to continue deucravacitinib (maintenance) or were switched to placebo (withdrawal).

Baseline disease characteristics were consistent for the study population in both studies: the majority of patients were male (67%), mean age was approximately 47 years old with the majority of patients between 40 and 64 years of age. 10% of patients were ≥ 65 years of age. The overall median PASI score was 18.7, and median BSA was 20%. Baseline sPGA score was 3 (moderate) in 79.8% of patients and 4 (severe) in 20.2%. Median Dermatology Life Quality Index (DLQI) score was 11. A total of 18.4% of study patients had a history of psoriatic arthritis.

Across both studies, 40% of patients had received prior phototherapy, 42.4% were naive to any systemic therapy (including biologic and/or non-biologic treatment), 41% received prior non-biologic systemic treatment, and 34.8% had received prior biologic therapy (16.1% TNF, 4.9% IL-12/23, 16.6% IL-17 and 4.4% IL-23 inhibitors).

The co-primary endpoints in the two studies were the proportions of patients who achieved 1) at least a 75% improvement in PASI scores (PASI 75) from baseline and 2) a sPGA score of clear or almost clear (0 or 1) at week 16 versus placebo.

In study POETYK PSO-1, PASI 75 was achieved with deucravacitinib in 58.4%, with apremilast in 35.1% and with placebo in 12.7% of the patients at week 16. Static Physician's Global Assessment (sPGA) of clear or almost clear at week 16 was achieved in 53.6%, 32.1% and 7.2% of the patients in the deucravacitinib, apremilast and placebo groups respectively. For these co-primary endpoints

superiority of deucravacitinib to placebo was demonstrated. Consistent results were seen in study POETYK PSO-2.

Table 2 presents the main efficacy results for the co-primary and other endpoints.

Table 2: Main efficacy results in adults with plaque psoriasis

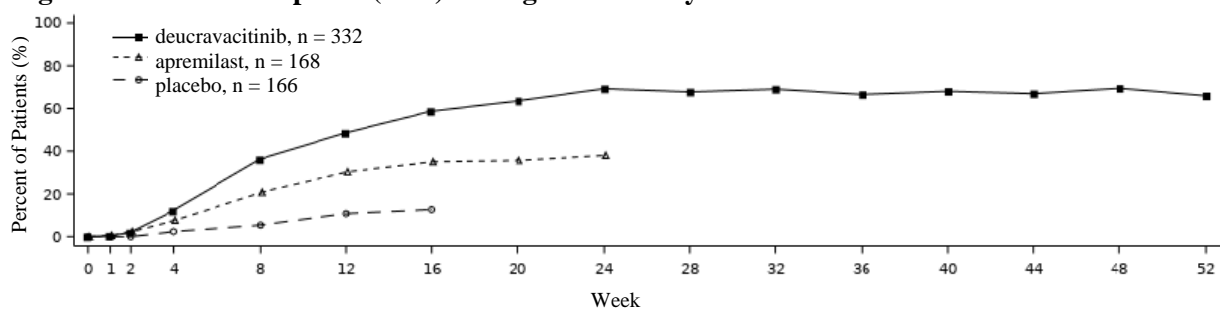
Endpoint	POETYK PSO-1			POETYK PSO-2		
	Deucravacitinib (N = 332) n (%)	Apremilast (N = 168) n (%)	Placebo (N = 166) n (%)	Deucravacitinib (N = 511) n (%)	Apremilast (N = 254) n (%)	Placebo (N = 255) n (%)
sPGA 0/1						
Week 16	178 (53.6)	54 (32.1) ^d	12 (7.2) ^{a,d}	253 (49.5)	86 (33.9) ^d	22 (8.6) ^{a,d}
Week 24	195 (58.7)	52 (31.0) ^d	-	251 (49.8) ^b	75 (29.5) ^d	-
sPGA 0						
Week 16	58 (17.5)	8 (4.8) ^d	1 (0.6) ^d	80 (15.7)	16 (6.3) ^e	3 (1.2) ^d
PASI 75						
Week 16	194 (58.4)	59 (35.1) ^d	21 (12.7) ^{a,d}	271 (53.0)	101 (39.8) ^e	24 (9.4) ^{a,d}
Week 24	230 (69.3)	64 (38.1) ^d	-	296 (58.7) ^b	96 (37.8) ^d	-
PASI 90						
Week 16	118 (35.5)	33 (19.6) ^e	7 (4.2) ^d	138 (27.0)	46 (18.1) ^f	7 (2.7) ^d
Week 24	140 (42.2)	37 (22.0) ^d	-	164 (32.5) ^b	50 (19.7) ^d	-
PASI 100						
Week 16	47 (14.2)	5 (3.0) ^d	1 (0.6) ^d	52 (10.2)	11 (4.3) ^f	3 (1.2) ^d
Scalp Specific PGA 0/1^c						
	(N = 209)	(N = 110)	(N = 121)	(N = 305)	(N = 166)	(N = 173)
Week 16	147 (70.3)	43 (39.1) ^d	21 (17.4) ^d	182 (59.7)	61 (36.7) ^d	30 (17.3) ^d
Non-responder imputation (NRI) was used; patients who discontinued treatment or the study prior to the endpoint or had missing data were counted as non-responders.						
^a Co-primary endpoint comparing deucravacitinib with placebo						
^b N = 504 accounting for missed assessments due to COVID-19 pandemic						
^c Includes patients with baseline Scalp Specific PGA score of ≥ 3						
^d $p \leq 0.0001$ for comparison between deucravacitinib and placebo or deucravacitinib and apremilast						
^e $p < 0.001$ for comparison between deucravacitinib and apremilast						
^f $p < 0.01$ for comparison between deucravacitinib and apremilast						

Examination of age, gender, race, body weight, duration of disease, baseline disease severity, and previous treatment with biologic or non-biologic agents did not identify differences in response to deucravacitinib among these subgroups.

Response over time

Deucravacitinib showed rapid onset of efficacy with maximum PASI 75 response achieved by week 24 (POETYK PSO-1 and PSO-2) and maintained through week 52 (POETYK PSO-1) (see Figure 1).

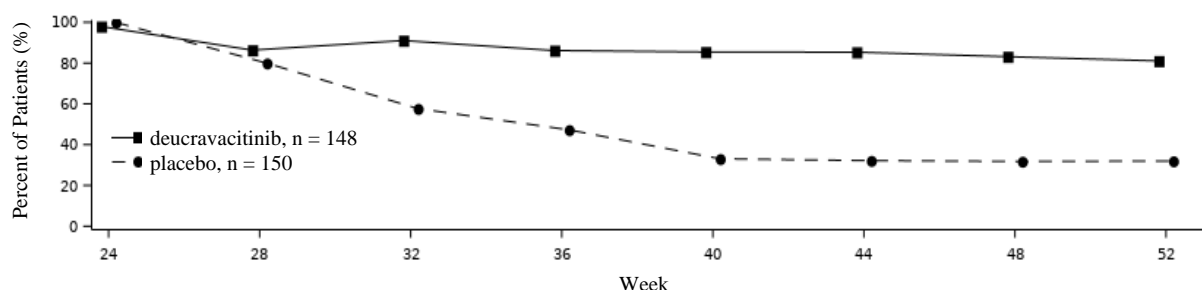
Figure 1: PASI 75 response (NRI) through week 52 by visit in POETYK PSO-1



Maintenance and durability of response

In POETYK PSO-2, to evaluate maintenance and durability of response, patients who were originally randomised to deucravacitinib and achieved PASI 75 response at week 24, were re-randomised to either continue treatment on deucravacitinib or receive placebo. For responders at week 24 who were re-randomised to placebo, the median time to loss of PASI 75 response was approximately 12 weeks. Figure 2 shows the PASI 75 responses in the two arms from week 24-52.

Figure 2: PASI 75 response (NRI) after re-randomisation at week-24 in POETYK PSO-2



Patient reported outcomes

Significantly greater improvements in health-related quality of life as measured by Dermatology Life Quality Index (DLQI) and in patient reported psoriasis symptoms (itch, pain, burning, stinging, and skin tightness) and signs (skin dryness, cracking, scaling, shedding or flaking, redness, and bleeding) as measured by the Psoriasis Symptoms and Signs Diary (PSSD) were observed in deucravacitinib-treated patients compared to placebo at week 16 and to apremilast at week 16 and week 24. Improvement of these responses in patients receiving continuous deucravacitinib treatment were maintained through week 52 in POETYK PSO-1.

Table 3: Patient reported outcomes in POETYK PSO-1 and POETYK PSO-2

	POETYK PSO-1			POETYK PSO-2		
	Deucravacitinib	Apremilast	Placebo	Deucravacitinib	Apremilast	Placebo
DLQI						
Patients achieving 0 or 1 (NRI)*	N = 322	N = 161	N = 160	N = 495	N = 247	N = 246
Week 16, n (%)	132 (41.0)	46 (28.6) ^a	17 (10.6) ^b	186 (37.6)	57 (23.1) ^b	24 (9.8) ^b
Week 24, n (%)	155 (48.1)	39 (24.2) ^b	-	205 (41.4)	53 (21.5) ^b	-
PSSD symptom score						
Change from baseline (mBOCF)**	N = 306	N = 158	N = 151	N = 466	N = 233	N = 239
Week 16, mean (SE)	-26.7 (1.8)	-17.8 (2.2) ^b	-3.6 (2.1) ^b	-28.3 (1.1)	-21.1 (1.4) ^b	-4.7 (1.4) ^b
Week 24, mean (SE)	-31.9 (2.0)	-20.7 (2.4) ^b	-	-29.1 (1.1)	-21.4 (1.5) ^b	-
PSSD sign score						
Change from baseline (mBOCF)*	N = 306	N = 158	N = 151	N = 466	N = 233	N = 239
Week 16, mean (SE)	-28.9 (1.8)	-20.0 (2.2) ^b	-5.3 (2.1) ^a	-31.9 (1)	-23.8 (1.4) ^b	-7.1 (1.4) ^b
Week 24, mean (SE)	-33.8 (2.0)	-22.5 (2.4) ^b	-	-32.4 (1.1)	-24.2 (1.5) ^b	-
* Patients with baseline score ≥ 2						
** Adjusted mean change; mBOCF – modified baseline observation carried forward; standard error (SE)						
^a $p < 0.01$ for comparison between deucravacitinib and placebo or deucravacitinib and apremilast						
^b $p < 0.0001$ for comparison between deucravacitinib and placebo or deucravacitinib and apremilast						

Elderly population

Of the 1519 patients with plaque psoriasis treated with deucravacitinib in clinical studies, 152 patients were 65 years or older, including 21 patients who were 75 years or older (see section 4.2). No overall differences in exposure, safety or effectiveness were observed between older and younger patients who received deucravacitinib.

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with SOTYKTU in one or more subsets of the paediatric population in the treatment of psoriasis (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Deucravacitinib exhibited near complete oral absorption, dose-related increase in exposure, and no evident time-dependent pharmacokinetics.

Absorption

Following oral administration of tablets, deucravacitinib exhibited rapid and near complete absorption. The median T_{max} ranged from 2 to 3 hours and absolute oral bioavailability was 99% in healthy volunteers. Modest accumulation (<1.4-fold at steady state) was observed following once daily dosing.

Food

Deucravacitinib can be administered without consideration for food or gastric pH modulators (H₂ receptor blockers and proton pump inhibitors). Co-administration of food or gastric pH modulators did not affect total exposure ($AUC_{[INF]}$) of deucravacitinib.

Distribution

The volume of distribution at steady state (V_{ss}), is 140 L, which is greater than total body water [42 L] indicating extravascular distribution. Deucravacitinib is 81.6% bound to human plasma proteins, primarily to human serum albumin.

Deucravacitinib distributes similarly between plasma and red blood cell components with blood-to-plasma concentration ratio of 1.26.

Biotransformation

In humans, deucravacitinib is metabolised via four primary biotransformation pathways, which include N-demethylation at the triazole moiety by cytochrome P-450 (CYP) 1A2 to form major metabolite BMT-153261, cyclopropyl carboxamide hydrolysis by carboxylesterase 2 (CES2) to form major metabolite BMT-158170, N-glucuronidation by uridine glucuronyl transferase (UGT) to form BMT-334616, and mono-oxidation by CYP 2B6/2D6 at the deuterated methyl group to form M11.

At steady state, deucravacitinib is the major circulating species constituting 49% of measured compound related components. Two major circulating metabolites, BMT-153261 and BMT-158170, were identified, both of which have half-lives comparable to the parent deucravacitinib. BMT-153261 has comparable potency to the parent compound and BMT-158170 is not pharmacologically active. The circulating exposure of BMT-153261 is much lower than the parent compound and therefore, the predominant pharmacological activity is attributed to the parent compound deucravacitinib.

Additionally, no unique to human metabolites and no long-lived circulatory metabolites were identified.

Elimination

Deucravacitinib is eliminated via multiple pathways, including Phase I and II metabolism, along with direct renal and faecal elimination. Additionally, no single enzyme contributed more than 26% of total clearance. Deucravacitinib is extensively metabolised, with 59% of orally administered [¹⁴C]-deucravacitinib dose eliminated as metabolites in urine (37% of the dose) and faeces (22% of the dose). Unchanged deucravacitinib in urine and faeces represented 13% and 26% of the dose, respectively.

The terminal elimination half-life of deucravacitinib 6 mg in healthy human adults is 10 hours, with a total clearance of 15.3 L/h (CV 27%). Deucravacitinib is a substrate of efflux transporters, P-glycoprotein (P-gp) and breast cancer resistance protein (BCRP) and uptake transporter OCT1. Due to high passive permeability, high oral bioavailability and low affinity for these transporters, contribution of these transporters to deucravacitinib pharmacokinetics is minimal.

Deucravacitinib is not a substrate of transporters OATP, NTCP, OAT1, OAT3, OCT2, MATE1, or MATE2K.

Linearity/non-linearity

The pharmacokinetics of single doses of deucravacitinib administered as tablets was linear across 3 mg to 36 mg dose range.

Interactions

Effect of deucravacitinib on other medicinal products

In vitro studies have shown no evidence that deucravacitinib and its major circulating metabolites, at clinically relevant exposures, inhibit major CYPs (1A2, 2B6, 2C8, 2C9, 2C19, 2D6, 3A4), UGTs (1A1, 1A4, 1A6, 1A9, 2B7), CES2 and drug transporters (P-gp, BCRP, OATP1B1, OATP1B3, BSEP, MRP2, OAT1, OAT3, OCT1, OCT2, MATE1, and MATE2K). Additionally, deucravacitinib does not induce CYP 1A2, 2B6, and 3A4 (see section 4.5).

Special populations

Elderly

Based on the population pharmacokinetic analysis, deucravacitinib mean steady state exposure ($C_{avg,ss}$) was higher, 31% in patients aged 65-74 years [$n = 87$ of 1387 (6.3%)] and 53% in patients aged 75-84 years [$n = 13$ of 1387 (0.94%)]. Exposures in patients aged ≥ 85 years old are not available.

Patients with renal impairment

Renal impairment has no clinically meaningful effect on deucravacitinib exposures (see section 4.2) based on a dedicated study where estimated glomerular filtration rate (eGFR) was determined using a modification of diet in renal disease (MDRD) equation. Compared to normal renal function group, deucravacitinib C_{max} was altered by up to 15% and $AUC_{[INF]}$ increased by up to 48% across renal impairment groups (mild (eGFR: ≥ 60 to < 90 mL/min), moderate (eGFR: ≥ 30 to < 60 mL/min), severe (eGFR: < 30 mL/min), and ESRD (eGFR: < 15 mL/min)). Compared to the normal renal function group, BMT-153261 C_{max} increased by up to 34% and $AUC_{[INF]}$ increased up to 84% across renal impairment groups.

Dialysis does not substantially clear deucravacitinib from systemic circulation (5.4% of dose cleared per dialysis).

Patients with hepatic impairment

Mild (Child-Pugh Class A) and moderate (Child-Pugh Class B) hepatic impairment has no clinically meaningful effect on deucravacitinib exposures (see section 4.2). Compared to normal hepatic function group, total deucravacitinib C_{max} and $AUC_{[INF]}$ in mild and moderate hepatic impairment group increased by up to 10% and 40%, respectively while the unbound deucravacitinib C_{max} and $AUC_{[INF]}$ increased by up to 26% and 60%, respectively. In severe (Child-Pugh Class C) hepatic impaired adults, total deucravacitinib C_{max} was comparable and total AUC was 43% higher relative to matched healthy adults. In these adults, unbound C_{max} and $AUC_{[INF]}$ increased by 62% and 131%, respectively. Deucravacitinib is not recommended for use in patients with severe hepatic impairment (see section 4.2).

The $AUC_{(0-T)}$ of BMT-153261 decreased by 19%, 53% and 76% in subjects with mild, moderate, and severe hepatic impairment, respectively, compared to subjects with normal hepatic function, while

C_{\max} of BMT-153261, decreased by 25%, 59%, and 79% in subjects with mild, moderate, and severe hepatic impairment, respectively.

Gender

Based on population pharmacokinetic modelling and simulation, females are expected to have an about 30% higher deucravacitinib mean steady-state exposure ($C_{\max,ss}$ and $C_{avg,ss}$) compared to male.

Body weight

Based on population pharmacokinetic modelling and simulation, patients with lower body weight (< 60 kg) are expected to have a higher geometric mean steady-state exposure of deucravacitinib of 37.4% ($C_{\max,ss}$) and 24.8% ($C_{avg,ss}$). Patients with a higher body weight (> 90 kg) are expected to have a lower geometric mean steady-state deucravacitinib exposure of 24.8% ($C_{\max,ss}$) and 19.6% ($C_{avg,ss}$) (compared to patients with body weight 60-90 kg).

Intrinsic factors

Race, and ethnicity did not have a clinically meaningful effect on deucravacitinib exposure.

5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose toxicity, genotoxicity, carcinogenic potential, and toxicity to reproduction and development.

Repeated dose toxicity

In the chronic toxicity study in rats, decreases in lymphocyte counts, bone marrow cellularity and lymphoid cellularity in tissues of the immune system were observed at exposure (AUC) at lowest-observed-effect-level (LOEL) approximately 9 times the recommended human dose (RHD). These effects were not associated with clinical signs of immunosuppression (e.g., infections). Decreases in platelet counts and red blood cell (RBC) mass parameters were observed at exposure (AUC) at the LOEL approximately 42 times the RHD. In the chronic toxicity study in monkeys, clinical and microscopic skin changes and decreased RBC mass parameters were observed at exposure (AUC) at LOEL approximately 7 times the RHD.

Developmental and reproductive toxicity

Deucravacitinib had no effects on fertility or early embryonic development in male and female rats at exposures (AUC) up to approximately 247 and 171 times the RHD, respectively.

Deucravacitinib was neither embryo-lethal nor teratogenic at maternal exposures (AUC) up to approximately 266 times the RHD in rats or 91/20 (total/free) times the RHD in rabbits.

In a pre- and post-natal development study in rats, transiently lower pup body weights were noted during the pre-weaning period at maternal exposure (AUC) approximately 110 times the RHD. This effect fully recovered during the post-weaning period.

Following administration of radiolabelled deucravacitinib to lactating rats, deucravacitinib and/or its metabolites were present in the milk with milk-to-plasma concentration ratios of 2.7 to 30.9.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core

Hypromellose acetate succinate
Anhydrous lactose
Microcrystalline cellulose
Croscarmellose sodium
Colloidal hydrated silica
Magnesium stearate

Film-coating

Polyvinyl alcohol
Titanium dioxide (E171)
Macrogol
Talc
Iron oxide red (E172)
Iron oxide yellow (E172)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Polyvinyl chloride/polychlorotrifluoroethylene (PVC/PCTFE) clear blister with push through aluminium foil containing 7 or 14 film-coated tablets per blister (calendar or non-calendar blisters).

Pack sizes: 7, 14, 28 and 84 film-coated tablets.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Bristol-Myers Squibb Pharma EEIG
Plaza 254
Blanchardstown Corporate Park 2
Dublin 15, D15 T867
Ireland

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/23/1718/001
EU/1/23/1718/002
EU/1/23/1718/003
EU/1/23/1718/004
EU/1/23/1718/005
EU/1/23/1718/006
EU/1/23/1718/007
EU/1/23/1718/008

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation:

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency <http://www.ema.europa.eu>.

ANNEX II

- A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE**
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE**
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION**
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT**

A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer responsible for batch release

Swords Laboratories Unlimited Company
T/A Bristol-Myers Squibb Pharmaceutical Operations
External Manufacturing
Plaza 254
Blanchardstown Corporate Park 2
Dublin 15, D15 T867
Ireland

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- **Periodic safety update reports (PSURs)**

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

The marketing authorisation holder (MAH) shall submit the first PSUR for this product within 6 months following authorisation.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- **Risk management plan (RMP)**

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

ANNEX III
LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING**CARTON****1. NAME OF THE MEDICINAL PRODUCT**

SOTYKTU 6 mg film-coated tablets
deucravacitinib

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 6 mg of deucravacitinib.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

film-coated tablet

7 film-coated tablets
14 film-coated tablets
28 film-coated tablets
84 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY**8. EXPIRY DATE**

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Bristol-Myers Squibb Pharma EEIG
Plaza 254
Blanchardstown Corporate Park 2
Dublin 15, D15 T867
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/23/1718/001 7 film-coated tablets (in a non-calendar blister)
EU/1/23/1718/002 7 film-coated tablets (in a calendar blister)
EU/1/23/1718/003 14 film-coated tablets (in a non-calendar blister)
EU/1/23/1718/004 14 film-coated tablets (in a calendar blister)
EU/1/23/1718/005 28 film-coated tablets (in non-calendar blisters)
EU/1/23/1718/006 28 film-coated tablets (in calendar blisters)
EU/1/23/1718/007 84 film-coated tablets (in non-calendar blisters)
EU/1/23/1718/008 84 film-coated tablets (in calendar blisters)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

SOTYKTU 6 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
--

BLISTER

1. NAME OF THE MEDICINAL PRODUCT

SOTYKTU 6 mg tablets
deucravacitinib

2. NAME OF THE MARKETING AUTHORISATION HOLDER
--

Bristol-Myers Squibb Pharma EEIG

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
--

CALENDAR BLISTER

1. NAME OF THE MEDICINAL PRODUCT

SOTYKTU 6 mg tablets
deucravacitinib

2. NAME OF THE MARKETING AUTHORISATION HOLDER
--

Bristol-Myers Squibb Pharma EEIG

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

B. PACKAGE LEAFLET

Package leaflet: Information for the patient

SOTYKTU 6 mg film-coated tablets deucravacitinib

▼ This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist, or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

1. What SOTYKTU is and what it is used for
2. What you need to know before you take SOTYKTU
3. How to take SOTYKTU
4. Possible side effects
5. How to store SOTYKTU
6. Contents of the pack and other information

1. What SOTYKTU is and what it is used for

What SOTYKTU is

SOTYKTU contains the active substance deucravacitinib, which belongs to a group of medicines called tyrosine kinase 2 (TYK2) inhibitors that help to reduce inflammation associated with psoriasis.

What SOTYKTU is used for

SOTYKTU is used to treat adults with moderate to severe “plaque psoriasis”, an inflammatory condition affecting the skin, which can cause red, scaly, thick, itchy, painful patches on your skin and can also affect your scalp and nails, hands, and feet.

How SOTYKTU works

SOTYKTU works by selectively blocking the activity of an enzyme called ‘TYK2’ (tyrosine kinase 2) which is involved in the process of inflammation. By reducing the activity of this enzyme, SOTYKTU can help to control the inflammation associated with plaque psoriasis and thereby reduce the signs (skin dryness, cracking, scaling, shedding, or flaking, redness and bleeding) and can therefore help to reduce symptoms such as itching, pain, burning, stinging, and skin tightness of this condition.

SOTYKTU has also been shown to improve the quality of life in patients with psoriasis. This means that the impact of your condition on daily activities, relationships and other factors should be less than it was before.

2. What you need to know before you take SOTYKTU

Do not take SOTYKTU

- if you are allergic to deucravacitinib or any of the other ingredients of this medicine (listed in section 6).
- if you have an infection, including active tuberculosis (TB) which your doctor thinks is important.

Warnings and precautions

Talk to your doctor or pharmacist before taking SOTYKTU:

- if you currently have an infection that does not go away or that keeps coming back
- if you have or have ever had tuberculosis (TB)
- if you have cancer, because your doctor will have to decide if you can still be given SOTYKTU
- if you have heart problems or medical conditions that make you more likely to develop heart disease - it is not clear if SOTYKTU increases the risk of heart disease
- if you have had or are at risk of blood clots in the veins of your legs (deep vein thrombosis) or lungs (pulmonary embolism). Tell your doctor if you get a painful swollen leg, chest pain, or shortness of breath as these can be signs of blood clots in the veins. It is not clear if SOTYKTU increases the risk of blood clots
- if you have recently had or plan to have a vaccination.

If you are not sure if any of the above applies to you, talk to your doctor, pharmacist or nurse before using SOTYKTU.

Children and adolescents

SOTYKTU is **not recommended** for children and adolescents under 18 years of age because it has not been evaluated in this age group.

Other medicines and SOTYKTU

Tell your doctor or pharmacist:

- if you are taking, have recently taken or might take any other medicines
- if you recently had or plan to have a vaccination. You should not be given certain types of vaccines (live vaccines) while using SOTYKTU.

Pregnancy and breast-feeding

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor for advice before taking this medicine. This is because it is not known how this medicine will affect the baby.

Driving and using machines

SOTYKTU is not expected to affect your ability to drive or use machines.

SOTYKTU contains lactose

If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine.

SOTYKTU contains sodium

This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

3. How to take SOTYKTU

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

The recommended dose is 6 mg taken every day. The tablet should be swallowed whole and can be taken either with or without food. Do not crush, cut, or chew the tablets.

Your doctor will decide for how long you need to use SOTYKTU.

If your condition has not improved after six months of treatment, talk to your doctor.

If you take more SOTYKTU than you should

If you have taken more SOTYKTU than you should, talk to your doctor as soon as possible. You may get some of the side effects listed in section 4.

If you forget to take SOTYKTU

If you forgot to take SOTYKTU, just take the normal dose the next day. Do not take a double dose to make up for a forgotten tablet.

If you stop taking SOTYKTU

Do not stop taking SOTYKTU without talking to your doctor first. If you stop treatment, symptoms of psoriasis may come back.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Very common (may affect more than 1 in 10 people)

- upper respiratory tract (nose and throat) infections with symptoms such as sore throat and stuffy nose

Common (may affect up to 1 in 10 people)

- viral infection of the mouth (such as cold sores)
- an increase in the level of an enzyme in your blood called creatine phosphokinase (CPK)
- sores in mouth
- acne-like rashes
- inflammation of hair follicles

Uncommon (may affect up to 1 in 100 people)

- shingles (*herpes zoster*)

Reporting of side effects

If you get any side effects, talk to your doctor, nurse, or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via [the national reporting system listed in Appendix V](#). By reporting side effects, you can help provide more information on the safety of this medicine.

5. How to store SOTYKTU

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the blister and carton after “EXP”. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice the tablets are damaged or there are signs of tampering with the medicine packaging.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What SOTYKTU contains

The active substance is deucravacitinib. Each film-coated tablet contains 6 mg of deucravacitinib.

The other ingredients are

- tablet core: hypromellose acetate succinate, anhydrous lactose, microcrystalline cellulose, croscarmellose sodium, colloidal hydrated silica and magnesium stearate.
- film-coating: polyvinyl alcohol, titanium dioxide (E171), macrogol, talc, iron oxide red (E172) and iron oxide yellow (E172).

What SOTYKTU looks like and contents of the pack

SOTYKTU is a pink, round, biconvex, film-coated tablet printed with “BMS 895” and “6 mg” on one side, in two lines, plain on the other side.

The film-coated tablets are provided in calendar or non-calendar blisters containing 7 or 14 tablets. Each pack contains 7, 14, 28 or 84 film-coated tablets.

Not all pack sizes may be marketed.

Marketing Authorisation Holder

Bristol-Myers Squibb Pharma EEIG
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Manufacturer

Swords Laboratories Unlimited Company
T/A Bristol-Myers Squibb Pharmaceutical Operations
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This leaflet was last revised in

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
<http://www.ema.europa.eu>.