MCE MedChemExpress

Safety Data Sheet

Revision Date: Jul.-23-2021
Print Date: Mar.-4-2024

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name : Raltegravir (potassium)

Catalog No. : HY-10353A

CAS No. : 871038-72-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company: MedChemExpress USA

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: sales@medchemexpress.com

1.4 Emergency telephone number

Emergency Phone #: 609-228-6898

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage/eye irritation (Category 1),H318

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3),H335

Reproductive toxicity (Category 2),H361

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H318 Causes serious eye damage

H335 May cause respiratory irritation

H361 Suspected of damaging fertility or the unborn child

Precautionary statement(s)

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 IF IN EYES:

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to in accordance with local regulation.

2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms:	MK 0518 (potassium)
Formula:	$C_{20}H_{20}FKN_6O_5$
Molecular Weight:	482.51
CAS No. :	871038-72-1

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion

Wash out mouth with water; Do NOT induce vomiting; call a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2).

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

5.2 Special hazards arising from the substance or mixture

During combustion, may emit irritant fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Refer to protective measures listed in sections 8.

6.2 Environmental precautions

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

6.3 Methods and materials for containment and cleaning up

Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Shipping at room temperature if less than 2 weeks.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

This product contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering controls

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

Personal protective equipment

Eye protection	Safety goggles with side-shields.
Hand protection	Protective gloves.
Skin and body protection	Impervious clothing.
Respiratory protection	Suitable respirator.

Environmental exposure controls	Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting/freezing point	282°C
Boiling point/range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

10.6 Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes.

Other decomposition products - no data available.

11.TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Classified based on available data. For more details, see section 2

Skin corrosion/irritation

Classified based on available data. For more details, see section 2

Serious eye damage/irritation

Classified based on available data. For more details, see section 2

Respiratory or skin sensitization

Classified based on available data. For more details, see section 2

Germ cell mutagenicity

Classified based on available data. For more details, see section 2

Carcinogenicity

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

Reproductive toxicity

Classified based on available data. For more details, see section 2

Specific target organ toxicity - single exposure

Classified based on available data. For more details, see section 2

Specific target organ toxicity - repeated exposure

Classified based on available data. For more details, see section 2

Aspiration hazard

Classified based on available data. For more details, see section 2

Additional information

This information is based on our current knowledge. However the chemical, physical, and toxicological properties have not been completely investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumlative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose substance in accordance with prevailing country, federal, state and local regulations.

Contaminated packaging

Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (US)

Proper shipping name: CORROSIVE SOLID,N. O. S.

UN number: 1759

Class: 8

Packing group: III

IMDG

Proper shipping name: CORROSIVE SOLID,N. O. S.

UN number: 1759

Class: 8

Packing group: III

IATA

Proper shipping name: CORROSIVE SOLID,N. O. S.

UN number: 1759

Class: 8

Packing group: III

15. REGULATORY INFORMATION

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA Hazards.

Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or anyother reproductive harm.

16. OTHER INFORMATION

 The above information is correct to the best of our present knowledge but does not purport to be all inclusive and should be used only as a guide. The product is for research use only and for experienced personnel. It must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The burden of safe use of this material rests entirely with the user. MedChemExpress disclaims all liability for any damage resulting from handling or from contact with this product.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

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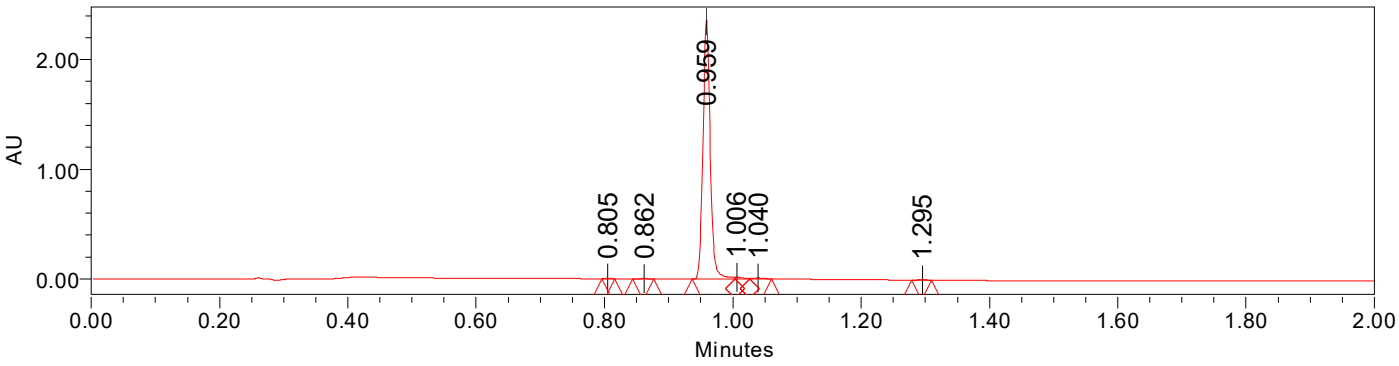
SAMPLE INFORMATION

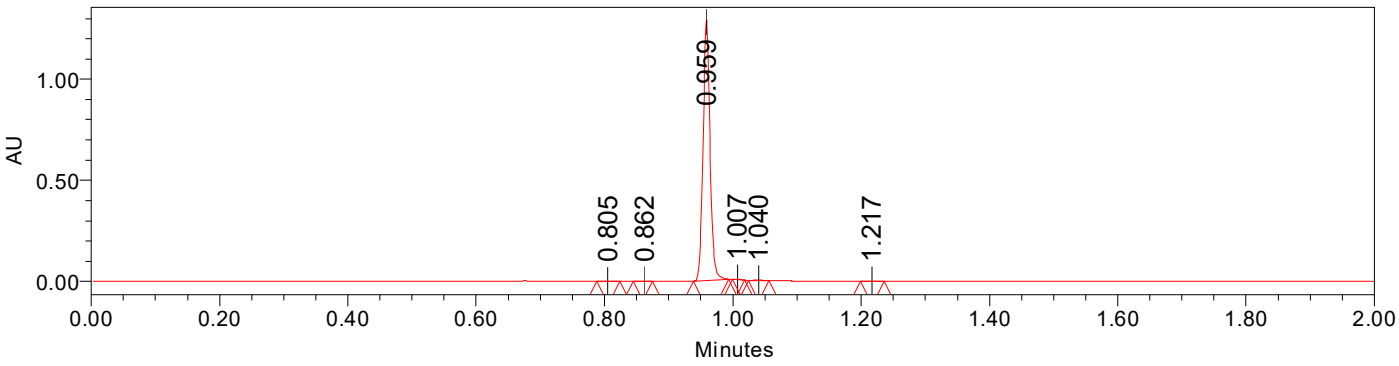
CAS NO.:	871038-72-1	Acquired By:	LY
Sample infromation:		Date Acquired:	8/31/2022 5:58:45 PM CST
Vial:	2:B,5	Acq. Method Set:	1_POS_2MIN
Injection #:	1	Date Processed:	9/1/2022 10:42:30 AM CST,
Injection Volume:	0.30 ul	Processing Method:	PDA_01, MS_scan
Run Time:	2.8 Minutes	Channel Name:	PDA Ch1 214nm@4.8nm, MS TIC,
Sample Set Name:	20220831	Column Name:	A-RP-985

Auto-Scaled Chromatogram



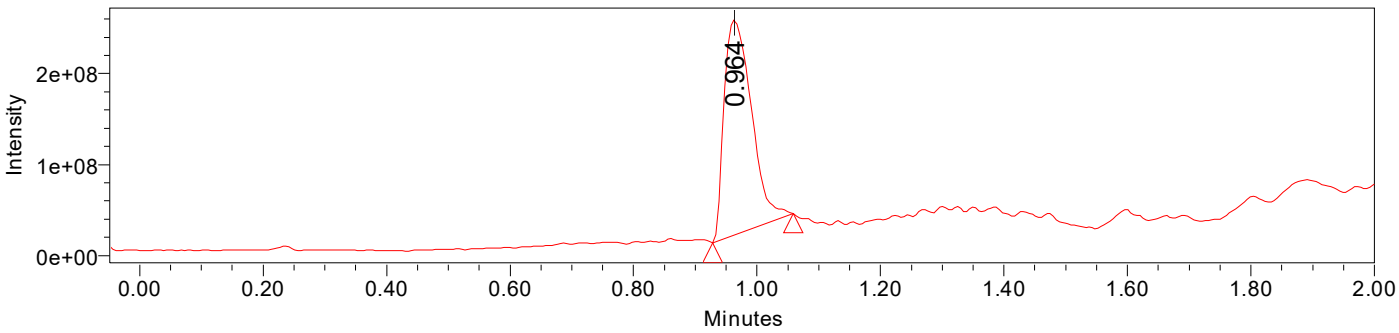
Processed Channel Descr. PDA Ch1 214nm@4.8nm

Auto-Scaled Chromatogram



Processed Channel Descr. PDA Ch2 254nm@4.8nm

Auto-Scaled Chromatogram



Processed Channel Descr. ACQ-SQD2 1: MS Scan MS TIC, Smoothed by 9 point Savitzky-Golay Filter., Time offset by -0.053 mins. (1: 150.00-1000.00 ES+, Centroid, CV=30)

Peak Results
Channel Name: PDA Ch2 254nm@4.8nm

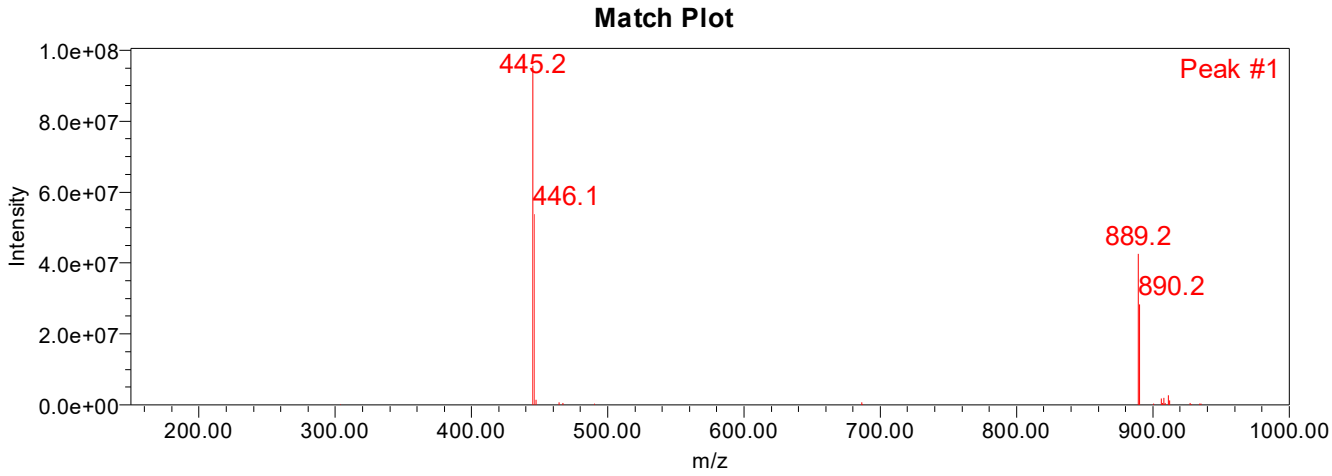
	RT	Width (sec)	Area	Height	% Area	Base Peak (Combined) (m/z)	Channel Name
1	0.805	2.150	952	1248	0.10	152.93	PDA Ch2 254nm@4.8nm
2	0.862	1.800	1119	1631	0.11	407.17	PDA Ch2 254nm@4.8nm
3	0.959	3.300	974716	1287522	99.25	151.99	PDA Ch2 254nm@4.8nm
4	1.007	1.150	1829	3123	0.19	445.21	PDA Ch2 254nm@4.8nm
5	1.040	1.900	2595	3454	0.26	445.18	PDA Ch2 254nm@4.8nm
6	1.217	2.200	831	923	0.08	152.05	PDA Ch2 254nm@4.8nm

Peak Results
Channel Name: PDA Ch1 214nm@4.8nm

	RT	Width (sec)	Area	Height	% Area	Base Peak (Combined) (m/z)	Channel Name
1	0.805	1.200	1451	2231	0.08	152.90	PDA Ch1 214nm@4.8nm
2	0.862	1.950	2523	3608	0.13	407.15	PDA Ch1 214nm@4.8nm
3	0.959	4.000	1866479	2362179	98.44	151.97	PDA Ch1 214nm@4.8nm
4	1.006	1.400	13069	13815	0.69	445.20	PDA Ch1 214nm@4.8nm
5	1.040	2.000	9074	7790	0.48	445.19	PDA Ch1 214nm@4.8nm
6	1.295	1.900	3494	4649	0.18	153.00	PDA Ch1 214nm@4.8nm

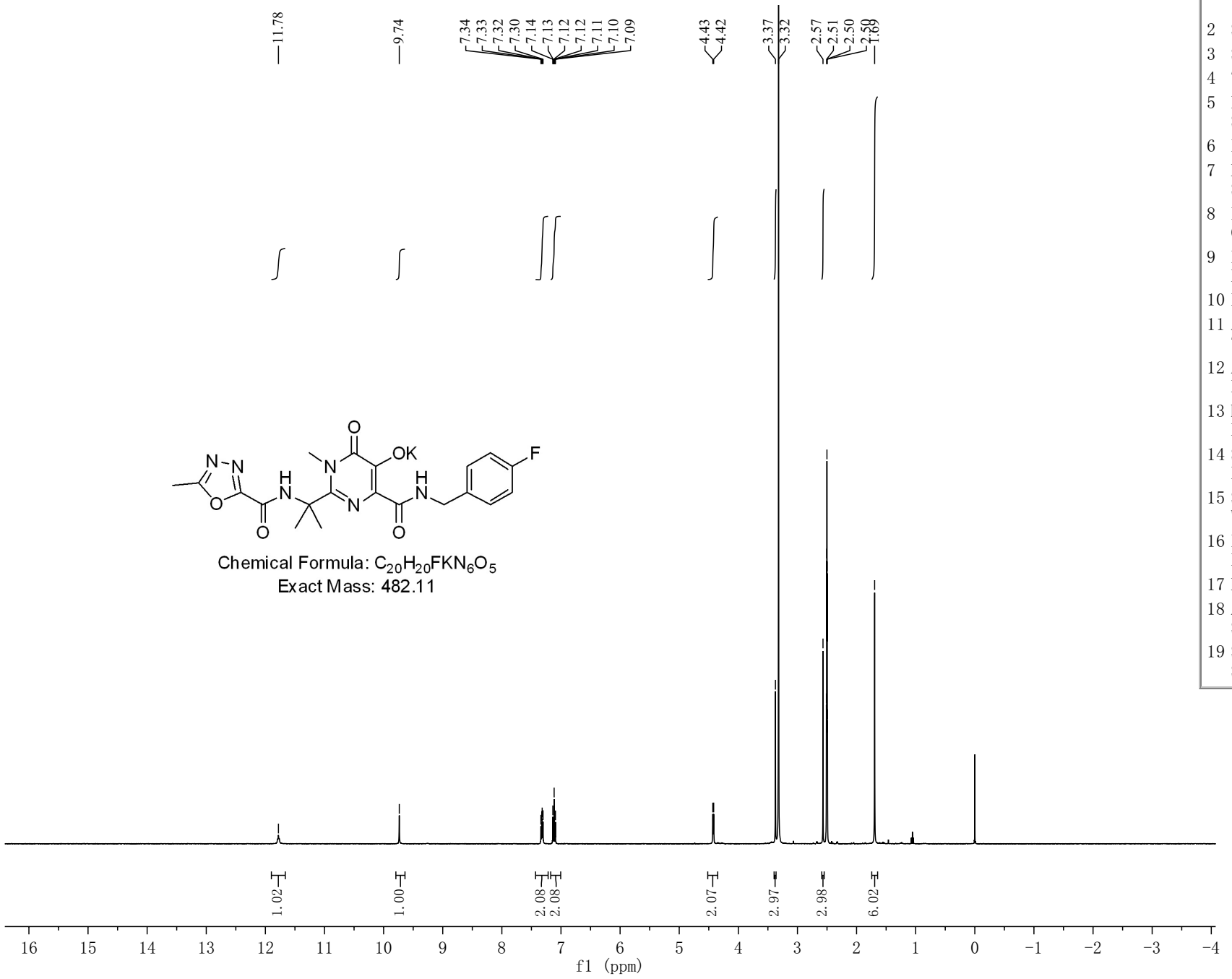
Peak Results
Channel Name: MS TIC

	RT	Width (sec)	Area	Height	% Area	Base Peak (Combined) (m/z)	Channel Name
1	0.964	7.834	733417107	237498344	100.00	445.18	MS TIC



Retention Time 0.964 Channel Name MS TIC

CAS NO.: 871038-72-1, DMSO



Chemical Formula: $C_{20}H_{20}FKN_6O_5$
Exact Mass: 482.11

	Parameter	Value
1	Title	
2	Spectrometer	Avance
3	Solvent	DMSO
4	Temperature	298.8
5	Pulse Sequence	zg30
6	Experiment	1D
7	Number of Scans	8
8	Receiver Gain	101
9	Relaxation Delay	1.0000
10	Pulse Width	8.0000
11	Acquisition Time	3.9977
12	Acquisition Date	2022-09-01T09:16:56
13	Modification Date	2022-09-01T09:21:04
14	Spectrometer Frequency	400.13
15	Spectral Width	8196.7
16	Lowest Frequency	-1630.3
17	Nucleus	1H
18	Acquired Size	32768
19	Spectral Size	65536