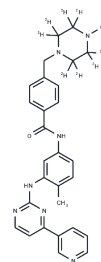


Imatinib-D8

Chemical Properties

CAS No. :	1092942-82-9
Formula:	C ₂₉ H ₂₃ D ₈ N ₇ O
Molecular Weight:	501.65
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Imatinib-D8 is a 2H-labeled version of Imatinib. Imatinib (T6230) is a multi-target receptor tyrosine kinase inhibitor with anti-tumor activity, selectively inhibiting BCR-ABL, v-Abl, PDGFR, c-kit kinases, and is used in chronic myeloid leukemia treatment.
Targets(IC50)	Bcr-Abl, Autophagy, c-Kit, PDGFR, SARS-CoV

Solubility Information

Solubility	DMSO: 8 mg/mL (15.95 mM), Sonication is recommended. H ₂ O: 5.06 mg/mL (10.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9934 mL	9.9671 mL	19.9342 mL
5 mM	0.3987 mL	1.9934 mL	3.9868 mL
10 mM	0.1993 mL	0.9967 mL	1.9934 mL
50 mM	0.0399 mL	0.1993 mL	0.3987 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Roosendaal J, et al. Development and validation of an LC-MS/MS method for the quantification of imatinib and imatinib-d8 in human plasma for the support of an absolute bioavailability microdose trial. *Pharmazie*. 2020 Apr 6;75(4):136-141.

Roosendaal J, et al. Determination of the absolute bioavailability of oral imatinib using a stable isotopically labeled intravenous imatinib-d8 microdose. *Eur J Clin Pharmacol*. 2020 Aug;76(8):1075-1082.

Moreno JM, et al. Imatinib assay by high-performance liquid chromatography in tandem mass spectrometry with solid-phase extraction in human plasma. *Biomed Chromatogr*. 2013 Apr;27(4):502-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481