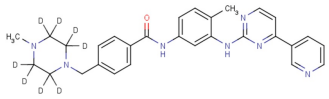
Data Sheet (Cat.No.T11640)

TargetMol
A DRUG SCREENING EXPERT

Imatinib D8

Chemical Properties



CAS No.:	1092942-82-9
Formula:	C29H23D8N7O
Molecular Weight:	501.65
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Imatinib D8 is a deuterium-labeled Imatinib. Imatinib is an orally bioavailable tyrosine kinases inhibitor that inhibits BCR/ABL, PDGFR, v-Abl, and c-kit kinase activity.
Targets(IC_{50})	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.993 mL	9.967 mL	19.934 mL
5 mM	0.399 mL	1.993 mL	3.987 mL
10 mM	0.199 mL	0.997 mL	1.993 mL
50 mM	0.04 mL	0.199 mL	0.399 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Heinrich MC, et al. Inhibition of c-kit receptor tyrosine kinase activity by STI 571, a selective tyrosine kinase inhibitor. Blood. 2000 Aug 1;96(3):925-32.

2. Guida T, et al. Sorafenib inhibits imatinib-resistant KIT and platelet-derived growth factor receptor beta gatekeeper mutants. Clin Cancer Res. 2007 Jun 1;13(11):3363-9.

Inhibitors · Natural Compounds · Compound Libraries

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