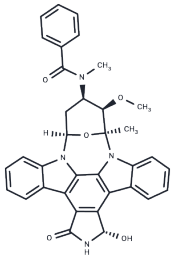
Data Sheet (Cat.No.T12791)

TargetMol

(S)-3-Hydroxy Midostaurin

Chemical Properties



CAS No. : 945260-14-0

Formula: C35H30N4O5

Molecular Weight: 586.64

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	(S)-3-Hydroxy Midostaurin is a potent inhibitor of kinases(IC50 of <400 nM for 13 kinases (VEGFR-2, TRK-A, FLT3, et)).
Targets(IC50)	Others,FLT,Drug Metabolite
In vitro	(S)-3-Hydroxy Midostaurin(IC50 range of 200-400 nM) against the ITD and D835Y mutants and low micromolar activity against the wild-type enzyme. The epimeric mixture of metabolites ((R)-3-Hydroxy Midostaurin + (S)-3-Hydroxy Midostaurin) substantially inhibits the proliferation of only the Tel-PDGFRβ with GI50 of 63 nM, KIT D816V (GI50=320 nM), and FLT3-ITD (GI50=650 nM) BaF3 cell lines, while the wild-type cells are relatively insensitive.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7046 mL	8.5231 mL	17.0462 mL
5 mM	0.3409 mL	1.7046 mL	3.4092 mL
10 mM	0.1705 mL	0.8523 mL	1.7046 mL
50 mM	0.0341 mL	0.1705 mL	0.3409 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

Manley PW, et al. Comparison of the Kinase Profile of Midostaurin (Rydapt) with That of Its PredominantMetabolites and the Potential Relevance of Some Newly Identified Targets to Leukemia Therapy. Biochemistry. 2018 Sep 25;57(38):5576-5590.

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