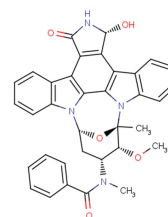


## (R)-3-Hydroxy Midostaurin

## Chemical Properties

CAS No.:	155848-20-7
Formula:	C <sub>35</sub> H <sub>30</sub> N <sub>4</sub> O <sub>5</sub>
Molecular Weight:	586.64
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	(R)-3-Hydroxy Midostaurin is a potent inhibitor of kinases, is a major metabolite of midostaurin undergoing by the hepatic CYP3A4 enzyme, has the potential for acute myeloid leukemia (AML).
Targets(IC <sub>50</sub> )	Others: None
In vitro	(R)-3-Hydroxy Midostaurin 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-PDGFR $\beta$ (GI <sub>50</sub> =63 nM), KIT D816V (GI <sub>50</sub> =320 nM), and FLT3-ITD (GI <sub>50</sub> =650 nM) BaF3 cell lines, while the wild-type cells are relatively insensitive.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.705 mL	8.523 mL	17.046 mL
5 mM	0.341 mL	1.705 mL	3.409 mL
10 mM	0.17 mL	0.852 mL	1.705 mL
50 mM	0.034 mL	0.17 mL	0.341 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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