

3-Hydroxy Midostaurin

Chemical Properties

CAS No.:	179237-49-1
Formula:	C ₃₅ H ₃₀ N ₄ O ₅
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	3-Hydroxy Midostaurin (CGP 52421), a metabolite of PKC412, effectively inhibits FMS-like tyrosine kinase-3 (FLT3) autophosphorylation with IC ₅₀ s of approximately 132 nM and 9.8 µM in culture medium and plasma, respectively. 3-Hydroxy Midostaurin is less selective but more cytotoxic than PKC412[1].
Targets(IC ₅₀)	FLT3 in culture medium: 132 nM FLT3 in plasma: 9.8 µM
In vitro	CGP52421 (200, 400, 600, 800, 1000 nM) is more cytotoxic than PKC412, When the dose over range 100 to 500 nM[1].

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. Levis M, et al. Plasma inhibitory activity (PIA): a pharmacodynamic assay reveals insights into the basis for cytotoxic response to FLT3 inhibitors. Blood. 2006 Nov 15;108(10):3477-83.

Inhibitors · Natural Compounds · Compound Libraries

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