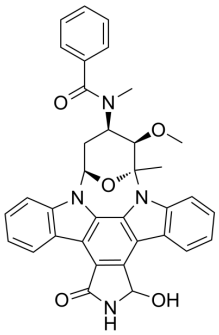
3-Hydroxy Midostaurin

Cat. No.:	HY-108263
CAS No.:	179237-49-1
Molecular Formula:	$C_{35}H_{30}N_4O_5$
Molecular Weight:	586.64
Target:	FLT3
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

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].
IC_{50} & Target	IC50: 132 nM (FLT3 in culture medium) and 9.8 μM (FLT3 in plasma)[1]
In Vitro	CGP52421 (200, 400, 600, 800, 1000 nM) is more cytotoxic than PKC412 over the dose range 100 to 500 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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