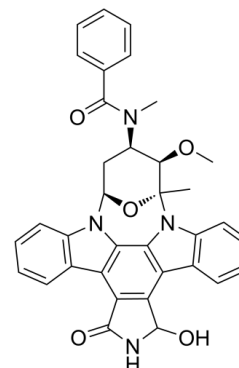


Data Sheet

Product Name:	3-Hydroxy Midostaurin
Cat. No.:	CS-0027888
CAS No.:	179237-49-1
Molecular Formula:	C ₃₅ H ₃₀ N ₄ O ₅
Molecular Weight:	586.64
Target:	FLT3
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

3-Hydroxy Midostaurin (CGP 52421), a metabolite of PKC412, effectively inhibits **FMS-like tyrosine kinase-3 (FLT3)** autophosphorylation with **IC₅₀s** 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]. IC₅₀ & 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].

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.

CAIndexNames:

Benzamide, N-(2,3,10,11,12,13-hexahydro-3-hydroxy-10-methoxy-9-methyl-1-oxo-9,13-epoxy-1H,9H-diindolo[1,2,3-gh:3',2',1'-lm]pyrrolo[3,4-j][1,7]benzodiazonin-11-yl)-N-methyl-

SMILES:

OC1NC(C2=C1C(C3=C4C=CC=C3)=C5N4[C@]6(O[C@@H](N7C5=C2C8=C7C=CC=C8)C[C@H]([C@H]6OC)N(C(C9=CC=CC=C9)=O)C)C)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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