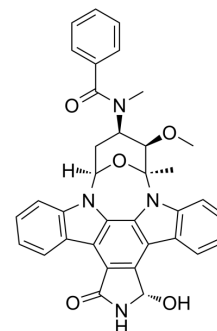


## (S)-3-Hydroxy Midostaurin

<b>Cat. No.:</b>	HY-108263A
<b>CAS No.:</b>	945260-14-0
<b>Molecular Formula:</b>	C <sub>35</sub> H <sub>30</sub> N <sub>4</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	586.64
<b>Target:</b>	FLT3; Drug Metabolite
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	(S)-3-Hydroxy Midostaurin ((S)-CGP52421) is a potent kinases inhibitor with IC <sub>50</sub> values of <400 nM for 13 kinases (VEGFR-2, TRK-A, FLT3, et). (S)-3-Hydroxy Midostaurin is a minor metabolite of midostaurin (PKC412; HY-10230) undergoing by the hepatic CYP3A4 enzyme. (S)-3-Hydroxy Midostaurin has the potential for acute myeloid leukemia (AML) <sup>[1]</sup> .
<b>In Vitro</b>	(S)-3-Hydroxy Midostaurin ((S)-CGP52421; compound 4) has IC <sub>50</sub> values in the range of 200-400 nM against the ITD and D835Y mutants and low micromolar activity against the wild-type enzyme <sup>[1]</sup> . The epimeric mixture of metabolites ((R)-3-Hydroxy Midostaurin + (S)-3-Hydroxy Midostaurin) substantially inhibits the proliferation of only the Tel-PDGFRβ (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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[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.

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

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