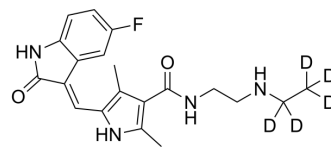


N-Desethyl Sunitinib-d₅

Cat. No.:	HY-10873S
CAS No.:	1217247-62-5
Molecular Formula:	C ₂₀ H ₁₈ D ₅ FN ₄ O ₂
Molecular Weight:	375.45
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Desethyl Sunitinib-d ₅ is the deuterium labeled N-Desethyl Sunitinib. N-Desethyl Sunitinib (SU-12662) is a metabolite of sunitinib. Sunitinib is a potent, ATP-competitive VEGFR, PDGFR β and KIT inhibitor with Ki values of 2, 9, 17, 8 and 4 nM for VEGFR -1, -2, -3, PDGFR β and KIT, respectively[1].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. O'Farrell AM, et al. SU11248 is a novel FLT3 tyrosine kinase inhibitor with potent activity in vitro and in vivo. *Blood*. 2003 May 1;101(9):3597-605. Epub 2003 Jan 16.
- [3]. Mendel DB, et al. In vivo antitumor activity of SU11248, a novel tyrosine kinase inhibitor targeting vascular endothelial growth factor and platelet-derived growth factor receptors: determination of a pharmacokinetic/pharmacodynamic relationship. *Clin Can*
- [4]. Sun L, et al. Discovery of 5-[5-fluoro-2-oxo-1,2-dihydroindol-(3Z)-ylidenemethyl]-2,4-dimethyl-1H-pyrrole-3-carboxylic acid (2-diethylaminoethyl)amide, a novel tyrosine kinase inhibitor targeting vascular endothelial and platelet-derived growth factor r

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

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