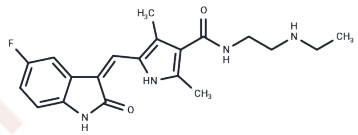
Data Sheet (Cat.No.T12145)

TargetMol

N-Desethyl Sunitinib

Chemical Properties



CAS No. : 356068-97-8

Formula: C20H23FN4O2

Molecular Weight: 370.42

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	N-Desethyl Sunitinib (SU012662) is the primary active metabolite of Sunitinib produced by the metabolism of cytochrome P450 enzyme 3A4 (CYP3A4).Sunitinib is an orally available inhibitor of a number of tyrosine kinases involved in tumor proliferation and angiogenesis, including VEGFR, PDGFR, KIT, and FLT3, and was approved for the treatment of advanced/metastatic renal cell carcinoma (RCC)
Targets(IC50)	FLT,c-Kit,Drug Metabolite,PDGFR,VEGFR

Solubility Information

Solubility	DMSO: 4 mg/mL (10.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6996 mL	13.4982 mL	26.9964 mL
5 mM	0.5399 mL	2.6996 mL	5.3993 mL
10 mM	0.270 mL	1.3498 mL	2.6996 mL
50 mM	0.054 mL	0.270 mL	0.5399 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Li Q, et al. An Optimized LC-MS/MS Method for Quantification of Sunitinib and N -Desethyl Sunitinib in Human Plasma and Its Application for Therapeutic Drug Monitoring. Ther Drug Monit. 2023 Dec 1;45(6):817-822.
Tang SC, et al. P-glycoprotein (ABCB1) and breast cancer resistance protein (ABCG2) restrict brain accumulation of the active sunitinib metabolite N-desethyl sunitinib. J Pharmacol Exp Ther. 2012 Apr;341(1):164-73.

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