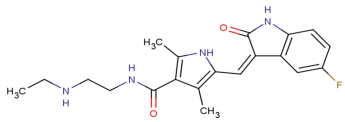
Data Sheet (Cat.No.T12145)

TargetMol
A DRUG SCREENING EXPERT

N-Desethyl Sunitinib

Chemical Properties



CAS No.:	356068-97-8
Formula:	C20H23FN4O2
Molecular Weight:	370.42
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	N-Desethyl Sunitinib is a sunitinib metabolite.
Targets(IC_{50})	Others: None
In vitro	Sunitinib inhibits phosphorylation of wild-type FLT3, FLT3-ITD, and FLT3-Asp835 with IC50 of 250 nM, 50 nM, and 30 nM, respectively. Sunitinib inhibits the proliferation of MV4;11 and OC1-AML5 cells with IC50 of 8 nM and 14 nM, respectively, and induces apoptosis in a dose-dependent manner[1].Sunitinib also potently inhibits Kit and FLT-3[3].
In vivo	Sunitinib treatment (20 mg/kg/day) dramatically suppresses the growth subcutaneous MV4;11 (FLT3-ITD) xenografts and prolongs survival in the FLT3-ITD bone marrow engraftment model[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (134.98 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7 mL	13.498 mL	26.996 mL
5 mM	0.54 mL	2.7 mL	5.399 mL
10 mM	0.27 mL	1.35 mL	2.7 mL
50 mM	0.054 mL	0.27 mL	0.54 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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

3. 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

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