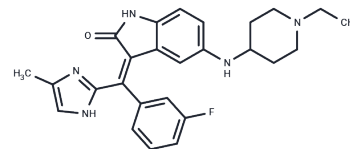


Tyrosine kinase-IN-1

Chemical Properties

CAS No. :	705946-27-6
Formula:	C ₂₆ H ₂₈ FN ₅ O
Molecular Weight:	445.53
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Tyrosine kinase-IN-1 is a multi-targeted tyrosine kinase inhibitor (KDR, Flt-1, FGFR1 and PDGFR α with IC ₅₀ s of 4nM, 20nM, 4nM, 2 nM ,respectively)
Targets(IC ₅₀)	VEGFR,FGFR,FLT,PDGFR
In vivo	Tyrosine kinase-IN-1 shows a reasonable PK profile (AUC(0- ∞)=1.9, t _{1/2} =4.6 h). It has a favorable oral bioavailability (F=63%) in rats

Solubility Information

Solubility	DMSO: 62.5 mg/mL (160.47 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2445 mL	11.2226 mL	22.4452 mL
5 mM	0.4489 mL	2.2445 mL	4.489 mL
10 mM	0.2245 mL	1.1223 mL	2.2445 mL
50 mM	0.0449 mL	0.2245 mL	0.4489 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

Moon K, et al. The design, synthesis, and biological evaluation of potent receptor tyrosine kinase inhibitors. *Bioorganic & Medicinal Chemistry Letters* 22 (2012) 4979-4985

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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