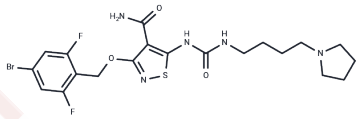
Data Sheet (Cat.No.T10870L)

TargetMol

CP-547632

Chemical Properties



CAS No. : 252003-65-9

Formula: C20H24BrF2N5O3S

Molecular Weight: 532.4

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CP-547632 is an orally available and potent, ATP-competitive dual inhibitor of VEGFR-2 and FGF kinase F with IC50s of 11 nM and 9 nM, respectively. CP-547632 is selective, with higher selectivity for VEGFR2 and bFGF than for EGFR, PDGFRβ and related tyrosine kinases (TKs). PDGFRβ and related tyrosine kinases (TKs) CP-547632 has antitumour activity.
Targets(IC50)	FGFR,BTK,PDGFR,VEGFR
In vitro	CP-547632 (1-1000 nM ; 1 h) suppresses VEGF-induced VEGFR-2 phosphorylation in a concentration-dependent manner (IC50: 6 nM). [1]
In vivo	CP-547632 (oral ; 50 mg/kg) yieldes plasma concentrations above 500 ng/ml for 12 hours. CP-547632 (p.o. ; 6.25-100 mg/kg/day ; for 10-24 days) causes a dose-dependent inhibition of growth in Colo-205, DLD-1, and MDA-MB-231 xenografts.[1]

Solubility Information

Solubility	DMSO: 90 mg/mL (169.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.51 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8783 mL	9.3914 mL	18.7829 mL
5 mM	0.3757 mL	1.8783 mL	3.7566 mL
10 mM	0.1878 mL	0.9391 mL	1.8783 mL
50 mM	0.0376 mL	0.1878 mL	0.3757 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Beebe JS, et al. Pharmacological characterization of CP-547,632, a novel vascular endothelial growth factor receptor-2 tyrosine kinase inhibitor for cancer therapy. Cancer Res. 2003 Nov 1 ; 63(21):7301-9.