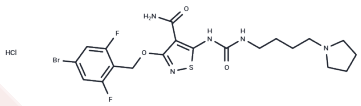
Data Sheet (Cat.No.T10870)

TargetMol

CP-547632 hydrochloride

Chemical Properties



CAS No. : 252003-71-7

Formula: C20H25BrClF2N5O3S

Molecular Weight: 568.86

Appearance: no data available

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

Biological Description

Description	CP-547632 hydrochloride is a well-tolerated and orally-bioavailable inhibitor of the VEGFR-2 and basic FGF kinases (IC50s: 11 nM and 9 nM) with antitumor efficacy.
Targets(IC50)	FGFR
In vitro	CP-547632 hydrochloride (1-1000 nM; 1 hour) inhibits VEGF-stimulated VEGFR-2 phosphorylation in a dose-dependent manner (IC50: 6 nM).
In vivo	In DLD-1, Colo-205, and MDA-MB-231 xenografts, CP-547632 hydrochloride (p.o.; 6.25-100 mg/kg/day; for 10-24 days) causes a dose-dependent inhibition of growth. CP-547632 hydrochloride (oral; 50 mg/kg) yields plasma concentrations above 500 ng/ml for 12 hours.

Solubility Information

Solubility	DMSO: 38.33 mg/mL (67.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7579 mL	8.7895 mL	17.579 mL
5 mM	0.3516 mL	1.7579 mL	3.5158 mL
10 mM	0.1758 mL	0.879 mL	1.7579 mL
50 mM	0.0352 mL	0.1758 mL	0.3516 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

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.

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