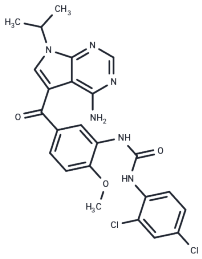
Data Sheet (Cat.No.T14921)

TargetMol

CE-245677

Chemical Properties



CAS No. : 717899-97-3

Formula: C24H22Cl2N6O3

Molecular Weight: 513.38

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	CE-245677 is a potent, reversible inhibitor of Tie2 and TrkA/B kinases, with cellular IC50 values of 4.7 nM and 1 nM, respectively.
Targets(IC50)	Tie-2,Trk receptor
In vitro	CE-245677 is a potent reversible inhibitor of Tie2 and TrkA/B kinases, with cellular IC50 values of 4.7 and 1 nM, respectively. It exhibits over 100-fold selectivity against various other angiogenic receptor tyrosine kinases, including KDR, PDGFR, and FGFR[1].
In vivo	In vivo rat, CE-245677 displays good oral absorption PK studies (F=80%)[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (243.48 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 (7.79 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	1.9479 mL	9.7394 mL	19.4787 mL
5 mM	0.3896 mL	1.9479 mL	3.8957 mL
10 mM	0.1948 mL	0.9739 mL	1.9479 mL
50 mM	0.039 mL	0.1948 mL	0.3896 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

Susan LaGreca, et al. Identification of selective, orally active Tie2 kinase inhibitors and discovery of CE-245,677 and PF-371,989. Cancer Research. AACR Annual Meeting-Apr 14-18, 2007.