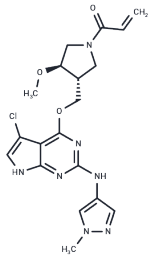
Data Sheet (Cat.No.T16492)

PF-06459988

Chemical Properties



CAS No. : 1428774-45-1

Formula: C19H22ClN7O3

Molecular Weight: 431.88

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	PF-06459988 is a novel, effective, orally active, irreversible, and selective epidermal growth factor receptor (EGFR) mutant inhibitor. PF-06459988 has high efficiency and high affinity for EGFRs double mutants containing T790M, and has minimal activity against WT EGFR. PF-06459988 makes a candidate drug for the treatment of cancer.
Targets(IC50)	EGFR

Solubility Information

Solubility	DMSO: 45 mg/mL (104.2 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: 2 mg/mL (4.63 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	2.3155 mL	11.5773 mL	23.1546 mL
5 mM	0.4631 mL	2.3155 mL	4.6309 mL
10 mM	0.2315 mL	1.1577 mL	2.3155 mL
50 mM	0.0463 mL	0.2315 mL	0.4631 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

Cheng H, et al. Discovery of 1-{(3R,4R)-3-[({5-Chloro-2-[(1-methyl-1H-pyrazol-4-yl)amino]-7H-pyrrolo[2,3-d] pyrimidin-4-yl}oxy)methyl]-4-methoxypyrrolidin-1-yl}prop-2-en-1-one (PF-06459988), a Potent, WT Sparing, Irreversible Inhibitor of T790M-Containing EGFR Mutants. J Med Chem. 2016 Mar 10;59(5):2005-24. doi: 10.1021 /acs.jmedchem.5b01633. Epub 2016 Jan 28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481