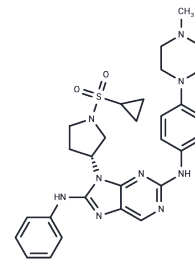


EGFR-IN-11

Chemical Properties

CAS No. :	2463200-44-2
Formula:	C ₂₉ H ₃₅ N ₉ O ₂ S
Molecular Weight:	573.71
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	EGFR-IN-11 is a selective inhibitor of EGFR-tyrosine kinase and induces cell apoptosis. EGFR-IN-11 inhibits triple mutant EGFR L858R/T790M/C797S with an IC ₅₀ of 18 nM and arrests cell cycle at G ₀ /G ₁ .
Targets(IC ₅₀)	Apoptosis, EGFR
In vitro	EGFR-IN-11 (0.1 nM-10 μM) shows anti-proliferation with IC ₅₀ s of 0.88 nM, 0.20 μM and 2.91 μM for HCC827, H1975 and A549 cells. EGFR-IN-11 (10nM-10 μM) suppresses the phosphorylation of EGFR in a concentration-dependent manner in the HCC827, H1975 and A549 cells[1].

Solubility Information

Solubility	DMSO: 112.5 mg/mL (196.09 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 (6.97 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.743 mL	8.7152 mL	17.4304 mL
5 mM	0.3486 mL	1.743 mL	3.4861 mL
10 mM	0.1743 mL	0.8715 mL	1.743 mL
50 mM	0.0349 mL	0.1743 mL	0.3486 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

Lei H, et al. Discovery of novel 9-heterocyclyl substituted 9H-purines as L858R/T790M/C797S mutant EGFR tyrosine kinase inhibitors. Eur J Med Chem. 2019 Nov 16:111888.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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