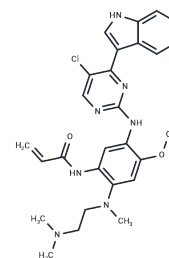


## Mutant EGFR inhibitor

## Chemical Properties

CAS No. :	1421373-62-7
Formula:	C <sub>27</sub> H <sub>30</sub> ClN <sub>7</sub> O <sub>2</sub>
Molecular Weight:	520.03
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	Mutant EGFR inhibitor is a selective and potent Mutated EGFR inhibitor, inhibits L858R activating mutant, the Exon19 deletion activating mutant and the T790M resistance mutant.
Targets(IC50)	EGFR
Kinase Assay	PLK1 Flash Plate Assay: The human PLK1 enzymatic reaction totaling 30µL contained 50 mM Tris-HCl (pH 8.0), 10 mM MgCl <sub>2</sub> , 0.02% BSA, 10% glycerol, 1 mM DTT, 100 mM NaCl, 3.3% DMSO, 8 µM ATP, 0.2µCi [ $\gamma$ - 33 P]-ATP, 4 µM peptide substrate (Biotin-AHX-LDETGHLDSSGLQEVHLA-CONH <sub>2</sub> ), and 10 nM recombinant human PLK1[2-369]T210D. The enzymatic reaction mixture, with or without PLK inhibitors, is incubated for 2.5 h at 30°C before termination with 20µL of 150 mM EDTA. Then 25µL of the stopped enzyme reaction mixture is transferred to a 384-well streptavidin coated Image FlashPlate and incubated at room temperature for 3 h. The Image Flash Plate wells are washed three times with 0.02% Tween-20 and then read on the Perkin-Elmer ViewLux.

## Solubility Information

Solubility	DMSO: 22.5 mg/mL (43.27 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 (3.85 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.923 mL	9.6148 mL	19.2297 mL
5 mM	0.3846 mL	1.923 mL	3.8459 mL
10 mM	0.1923 mL	0.9615 mL	1.923 mL
50 mM	0.0385 mL	0.1923 mL	0.3846 mL

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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

WO 2013014448 A1

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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

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