EGFR-IN-17

Cat. No.: HY-115716

CAS No.: 2817679-31-3

Molecular Formula: $C_{27}H_{31}ClN_7O_3P$

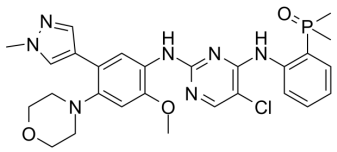
Molecular Weight: 568.01

Target: EGFR

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (22.01 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7605 mL	8.8027 mL	17.6053 mL
	5 mM	0.3521 mL	1.7605 mL	3.5211 mL
	10 mM	0.1761 mL	0.8803 mL	1.7605 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.25 mg/mL (2.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (2.20 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (2.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EGFR-IN-17 is a potent and selective inhibitor of the epidermal growth factor receptor (IC_{50} 0.0002 μM) to overcome C797S-mediated resistance.

IC_{50} & Target

EGFR (C797S/T790M/L858R)
0.0002 μM (IC_{50})

REFERENCES

[1]. Finlay MRV, et al. Potent and Selective Inhibitors of the Epidermal Growth Factor Receptor to Overcome C797S-Mediated Resistance. J Med Chem. 2021 Sep 23;64(18):13704-13718.

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