TX1-85-1

Cat. No.: HY-100848

CAS No.: 1603845-32-4

Molecular Formula: $C_{32}H_{36}N_8O_3$

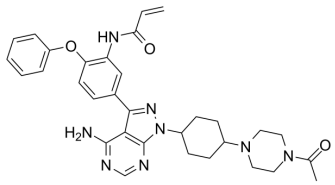
Molecular Weight: 580.68

Target: EGFR

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

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.85 mg/mL (6.63 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7221 mL	8.6106 mL	17.2212 mL
	5 mM	0.3444 mL	1.7221 mL	3.4442 mL
	10 mM	---	---	---

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: ≥ 0.38 mg/mL (0.65 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.38 mg/mL (0.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TX1-85-1 is an irreversible Her3 (ErbB3) inhibitor with an IC_{50} of 23 nM. TX1-85-1 is also the first selective Her3 ligand, which forms a covalent bond with Cys721 located in the ATP-binding site of Her3. TX1-85-1 induces partial degradation of Her3 protein and attenuates Her3-dependent signaling[1].

IC_{50} & Target

ErbB3
23 nM (IC_{50})

In Vitro

TX1-85-1 possesses an anti-proliferation EC_{50}s of 9.9, 11.5, and 16.9 μM for Ovcar8, HCC827 GR6, and PC9 GR4 cells, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xie T, et al. Pharmacological targeting of the pseudokinase Her3. Nat Chem Biol. 2014 Dec;10(12):1006-12.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA