UNC2250

Cat. No.: HY-15797

CAS No.: 1493694-70-4

Molecular Formula: $C_{24}H_{36}N_6O_2$

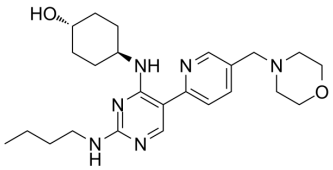
Molecular Weight: 440.58

Target: TAM Receptor

Pathway: Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

0.1 M HCL : 12.5 mg/mL (28.37 mM; ultrasonic and adjust pH to 3 with HCl)

DMSO : ≥ 10 mg/mL (22.70 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2697 mL	11.3487 mL	22.6974 mL
5 mM	0.4539 mL	2.2697 mL	4.5395 mL
10 mM	0.2270 mL	1.1349 mL	2.2697 mL

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

In Vivo

1. Add each solvent one by one: 0.5% CMC-Na/saline water
   Solubility: 10 mg/mL (22.70 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 50% PEG300 >> 50% saline
   Solubility: 10 mg/mL (22.70 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2 mg/mL (4.54 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 20% HS-15 >> 70% saline
   Solubility: ≥ 1 mg/mL (2.27 mM); Clear solution
5. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 50% PBS
   Solubility: 1 mg/mL (2.27 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

UNC2250 is a potent and selective Mer inhibitor with an IC_{50} of 1.7 nM, about 160- and 60-fold selectivity over the closely

	related kinases Axl/Tyro3.
IC_{50} & Target	IC50: 1.7 nM (Mer)[1]
In Vitro	UNC2250 (5-500 nM; 1 hour) inhibits Mer phosphorylation in 697 B-ALL cells with an IC_{50} value of 9.8 nM[1]. UNC2250 efficiently inhibits ligand-dependent phosphorylation of a chimeric protein consisting of the extracellular and transmembrane domains of the epidermal growth factor (EGF) receptor and the intracellular tyrosine kinase domain of Mer [1]. UNC2250 incubation inhibits colony formation in soft agar cultures of the BT-12 rhabdoid tumor and the Colo699 NSCLC cell lines[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	697 B-ALL cells
Concentration:	5, 10, 20, 50, 100, 250, 500 nM
Incubation Time:	1 hour
Result:	Inhibits Mer phosphorylation in 697 B-ALL cells with an IC_{50} value of 9.8 nM.

CUSTOMER VALIDATION

- Theranostics. 2018 Jul 30;8(15):4262-4278.

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REFERENCES

[1]. Zhang, W., et al., Pseudo-cyclization through intramolecular hydrogen bond enables discovery of pyridine substituted pyrimidines as new Mer kinase inhibitors. J Med Chem, 2013. 56(23): p. 9683-92.

[2]. Xiaodong Wang, et al. Pyrimidine compounds for the treatment of cancer.WO2013177168A1.

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