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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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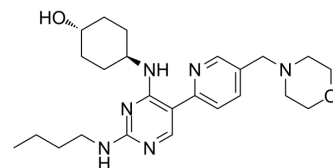
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UNC2250

Cat. No.:	HY-15797
CAS No.:	1493694-70-4
Molecular Formula:	C ₂₄ H ₃₆ N ₆ O 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.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- Add each solvent one by one: 0.5% CMC-Na/saline water
Solubility: 10 mg/mL (22.70 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 50% PEG300 >> 50% saline
Solubility: 10 mg/mL (22.70 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (4.54 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 20% HS-15 >> 70% saline
Solubility: ≥ 1 mg/mL (2.27 mM); Clear solution
- 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 IC₅₀ 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 IC₅₀ 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] <table> <tr> <td>Cell Line:</td><td>697 B-ALL cells</td></tr> <tr> <td>Concentration:</td><td>5, 10, 20, 50, 100, 250, 500 nM</td></tr> <tr> <td>Incubation Time:</td><td>1 hour</td></tr> <tr> <td>Result:</td><td>Inhibits Mer phosphorylation in 697 B-ALL cells with an IC₅₀ value of 9.8 nM.</td></tr> </table>	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.
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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.

See more customer validations on www.MedChemExpress.com

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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