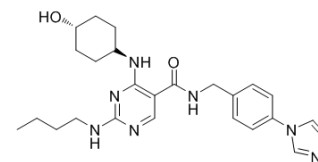


UNC2881

Cat. No.:	HY-15798		
CAS No.:	1493764-08-1		
Molecular Formula:	C ₂₅ H ₃₃ N ₇ O ₂		
Molecular Weight:	463.58		
Target:	TAM Receptor		
Pathway:	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 : ≥ 44 mg/mL (94.91 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1571 mL	10.7856 mL	21.5713 mL
	5 mM	0.4314 mL	2.1571 mL	4.3142 mL
	10 mM	0.2157 mL	1.0786 mL	2.1571 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UNC2881 is a potent and specific Mer kinase inhibitor; inhibits steady-state Mer kinase phosphorylation with an IC₅₀ value of 22 nM. IC₅₀ value: 22 nM [1]Target: Mer kinase inhibitorTreatment with UNC2281 is also sufficient to block EGF-mediated stimulation of a chimeric receptor containing the intracellular domain of Mer fused to the extracellular domain of EGFR. In addition, UNC2881 potently inhibits collagen-induced platelet aggregation, suggesting that this class of inhibitors may have utility for prevention and/or treatment of pathologic thrombosis.

REFERENCES

[1]. Zhang W, et al. Discovery of Mer specific tyrosine kinase inhibitors for the treatment and prevention of thrombosis. J Med Chem. 2013 Dec 12;56(23):9693-700.

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

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