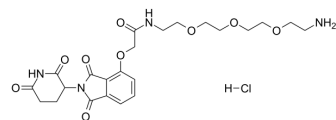


Thalidomide-O-amido-PEG3-C2-NH2 hydrochloride

Cat. No.:	HY-107440A
CAS No.:	2245697-84-9
Molecular Formula:	C ₂₃ H ₃₁ ClN ₄ O ₉
Molecular Weight:	542.97
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
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 : 125 mg/mL (230.22 mM; Need ultrasonic)					
	H ₂ O : 100 mg/mL (184.17 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.8417 mL	9.2086 mL	18.4172 mL
5 mM			0.3683 mL	1.8417 mL	3.6834 mL	
	10 mM		0.1842 mL	0.9209 mL	1.8417 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: ≥ 2.08 mg/mL (3.83 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.83 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.83 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Thalidomide-O-amido-PEG3-C2-NH2 hydrochloride is a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and 3-unit PEG linker used in PROTAC technology ^[1] .
IC₅₀ & Target	Cereblon
In Vitro	Thalidomide-O-amido-PEG3-C2-NH2 hydrochloride is composed of Degron (E3 ubiquitin ligase) and a linker, and they are used in PROTAC technology. Thalidomide-O-amido-PEG3-C2-NH2 binds to the targeting ligand to induce the target protein (including BRD4, BRD2, and BRD3) degradation ^[1] .

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

REFERENCES

[1]. Methods to induce targeted protein degradation through bifunctional molecules. WO2017007612A1.

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