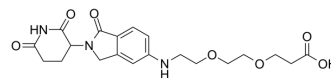


Glutarimide-Isoindolinone-NH-PEG2-COOH

Cat. No.:	HY-138792
CAS No.:	2803827-03-2
Molecular Formula:	C ₂₀ H ₂₅ N ₃ O ₇
Molecular Weight:	419.43
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 73.33 mg/mL (174.83 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3842 mL	11.9209 mL	23.8419 mL
				5 mM	0.4768 mL	2.3842 mL	4.7684 mL
				10 mM	0.2384 mL	1.1921 mL	2.3842 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.75 mg/mL (16.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.75 mg/mL (16.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5.5 mg/mL (13.11 mM); Clear solution 						

BIOLOGICAL ACTIVITY

Description	Glutarimide-Isoindolinone-NH-PEG2-COOH is a synthesized E3 ligase ligand-linker conjugate that incorporates a cereblon ligand and a linker used in PROTAC technology ^[1] .
IC ₅₀ & Target	Cereblon
In Vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Sato T, et al. Cereblon-Based Small-Molecule Compounds to Control Neural Stem Cell Proliferation in Regenerative Medicine. *Front Cell Dev Biol.* 2021;9:629326. Published 2021 Mar 11.
- [2]. Nalawansa DA, et al. PROTACs: An Emerging Therapeutic Modality in Precision Medicine. *Cell Chem Biol.* 2020;27(8):998-1008.
-

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