N-Mal-N-bis(PEG2-NHS ester)

Cat. No.: HY-140571

CAS No.: 2182601-73-4

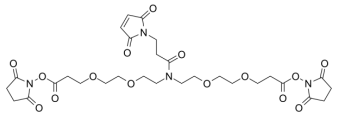
Molecular Formula: $C_{29}H_{38}N_4O_{15}$

Molecular Weight: 682.63

Target: PROTAC Linkers

Pathway: PROTAC

Storage: -20°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (146.49 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.4649 mL	7.3246 mL	14.6492 mL
	5 mM	0.2930 mL	1.4649 mL	2.9298 mL
	10 mM	0.1465 mL	0.7325 mL	1.4649 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: ≥ 2.5 mg/mL (3.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description N-Mal-N-bis(PEG2-NHS ester) is a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[1].

IC_{50} & Target	PEGs	Alkyl/ether

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[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

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