Acid-PEG2-C2-Boc

Cat. No.: HY-140480

CAS No.: 2086688-99-3

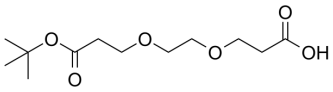
Molecular Formula: $C_{12}H_{22}O_6$

Molecular Weight: 262.3

Target: PROTAC Linkers

Pathway: PROTAC

Storage: 4°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 : 100 mg/mL (381.24 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8124 mL	19.0621 mL	38.1243 mL
	5 mM	0.7625 mL	3.8124 mL	7.6249 mL
	10 mM	0.3812 mL	1.9062 mL	3.8124 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 (9.53 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.53 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.53 mM); Clear solution

BIOLOGICAL ACTIVITY

Description Acid-PEG2-C2-Boc 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

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