Bis-propargyl-PEG3

Cat. No.: HY-133192

CAS No.: 126422-58-0

Molecular Formula: $C_{12}H_{18}O_4$

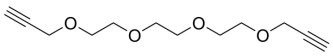
Molecular Weight: 226.27

Target: PROTAC Linkers

Pathway: PROTAC

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (441.95 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.4195 mL	22.0975 mL	44.1950 mL
5 mM	0.8839 mL	4.4195 mL	8.8390 mL
10 mM	0.4419 mL	2.2097 mL	4.4195 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 (11.05 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.05 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.05 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bis-propargyl-PEG3 is a PEG-based PROTAC linker used in the synthesis of PROTACs. Bis-propargyl-PEG3 is used in the synthesis of zinc-dipicolylamine (ZnDPA) complexes with antiplasmodial activity[1] [2]. Bis-propargyl-PEG3 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

PEGs

In Vitro	Bis-propargyl-PEG3 is used in the synthesis of zinc-dipicolylamine (ZnDPA) complexes with antiplasmodial activity against three strains of Plasmodium falciparum [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pearlie BURNETTE, et al. Dimeric immuno-modulatory compounds against cereblon-based mechanisms. WO2020014489A2.

[2]. Rice DR, et al. Antiplasmodial activity of targeted zinc(II)-dipicolylamine complexes. Bioorg Med Chem. 2017 May 15;25(10):2754-2760.

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