Amino-PEG11-amine

Cat. No.: HY-130411

CAS No.: 479200-82-3

Molecular Formula: $C_{24}H_{52}N_2O_{11}$

Molecular Weight: 544.68

Target: PROTAC Linkers

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 : 100 mg/mL (183.59 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	1.8359 mL	9.1797 mL	18.3594 mL
	5 mM	0.3672 mL	1.8359 mL	3.6719 mL
	10 mM	0.1836 mL	0.9180 mL	1.8359 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 (4.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.59 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Amino-PEG11-amine, a PEG-based (12 units) PROTAC linker used to combine two mono diethylstilbestrol (DES)-based ligands, provides an alternative strategy for preparing more selective and active ER antagonists for endocrine therapy of breast cancer[1].

IC_{50} & Target

PEGs

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

REFERENCES

[1]. Shan M, et al. Nonsteroidal bivalent estrogen ligands: an application of the bivalent concept to the estrogen receptor. ACS Chem Biol. 2013 Apr 19;8(4):707-15.

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