Data Sheet (Cat.No.T14226)

TargetMol

Amino-PEG11-amine

Chemical Properties

CAS No. : 479200-82-3

Formula: C24H52N2O11

Molecular Weight: 544.68

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Amino-PEG11-amine, a polyethylene glycol (PEG)-based linker with 12 units, facilitates the conjugation of two mono diethylstilbestrol (DES)-based ligands. This strategy enhances the preparation of selective and potent estrogen receptor (ER) antagonists, offering an innovative approach for endocrine therapy in breast cancer treatment.
Targets(IC50)	PROTAC Linker
In vitro	PROTACs are bifunctional molecules consisting of two ligands linked together: one ligand targets an E3 ubiquitin ligase and the other targets the specific protein to be degraded. They leverage the intracellular ubiquitin-proteasome system to selectively degrade these target proteins[1].

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.67 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
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	0.918 mL	1.8359 mL
50 mM	0.0367 mL	0.1836 mL	0.3672 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.