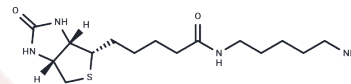


5-(Biotinamido)pentylamine

Chemical Properties

CAS No. :	115416-38-1
Formula:	C ₁₅ H ₂₈ N ₄ O ₂ S
Molecular Weight:	328.47
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	5-(Biotinamido)pentylamine is an alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs.
Targets(IC50)	PROTAC Linker
In vitro	PROTACs, or proteolysis-targeting chimeras, are composed of two distinct ligands joined by a linker. One of these ligands binds to a specific protein target, while the other binds to an E3 ubiquitin ligase. When the PROTAC binds to both the target protein and the E3 ligase, it triggers the ubiquitin-proteasome system within cells to degrade the target protein, thereby providing a mechanism for targeted protein degradation.

Solubility Information

Solubility	DMSO: 125 mg/mL (380.55 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: 3.3 mg/mL (10.05 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (30.44 mM),Solution. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0444 mL	15.2221 mL	30.4442 mL
5 mM	0.6089 mL	3.0444 mL	6.0888 mL
10 mM	0.3044 mL	1.5222 mL	3.0444 mL
50 mM	0.0609 mL	0.3044 mL	0.6089 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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