

Alkynyl Palmitic Acid

Chemical Properties

CAS No. : 99208-90-9

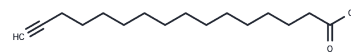
Formula: C₁₆H₂₈O₂

Molecular Weight: 252.39

Store at low temperature

Storage: 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	Alkynyl Palmitic Acid is an alkyl chain-based PROTAC linker that can be used in PROTAC synthesis.
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: 100 mg/mL (396.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (13.08 mM),Sonication is recommended. <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	3.9621 mL	19.8106 mL	39.6212 mL
5 mM	0.7924 mL	3.9621 mL	7.9242 mL
10 mM	0.3962 mL	1.9811 mL	3.9621 mL
50 mM	0.0792 mL	0.3962 mL	0.7924 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

Liu Y, Cheng S, He G, et al. An inner membrane complex protein IMC1g in *Plasmodium berghei* is involved in asexual stage schizogony and parasite transmission. *mBio*. 2024: e02652-24.

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