

Mc-MMAE

Chemical Properties

CAS No. : 863971-24-8

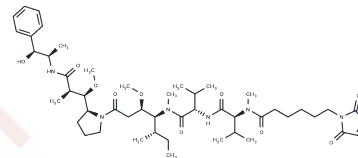
Formula: C49H78N6O10

Molecular Weight: 911.18

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Mc-MMAE (Maleimidocaproyl-monomethylauristatin E) is a drug-linker conjugate for ADC. Mc-MMAE is a maleimidocaproyl-conjugated monomethyl auristatin E, which is a potent tubulin inhibitor.
Targets(IC50)	Microtubule Associated,Drug-Linker Conjugates for ADC,PROTAC Linker
In vitro	The production of maleimidocaproyl-MMAE (mc-MMAE) involves introducing maleimidocaproic acid into a dichloromethane solution containing MMAE. This process is then followed by adding diethyl cyanophosphonate and diisopropylethylamine[1].

Solubility Information

Solubility	DMSO: 51 mg/mL (55.97 mM),Sonication is recommended. H2O: < 0.1 mg/mL (insoluble),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (4.39 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	1.0975 mL	5.4874 mL	10.9748 mL
5 mM	0.2195 mL	1.0975 mL	2.195 mL
10 mM	0.1097 mL	0.5487 mL	1.0975 mL
50 mM	0.0219 mL	0.1097 mL	0.2195 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

Sanderson RJ, et al. In vivo drug-linker stability of an anti-CD30 dipeptide-linked auristatin immunoconjugate. Clin Cancer Res. 2005 Jan 15;11(2 Pt 1):843-52.

Wu X, Xu L, Li X, et al. A HER2-targeting antibody-MMAE conjugate RC48 sensitizes immunotherapy in HER2-positive colon cancer by triggering the cGAS-STING pathway. Cell Death & Disease. 2023, 14(8): 550.

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