

Dolastatin 10

Chemical Properties

CAS No. : 110417-88-4

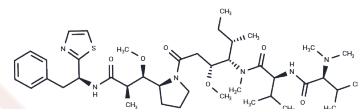
Formula: C₄₂H₆₈N₆O₆S

Molecular Weight: 785.09

Keep away from moisture

Storage: Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dolastatin 10 (DLS 10) is a potent peptide with antimetabolic properties, effectively inhibiting tubulin polymerization.
Targets(IC50)	Microtubule Associated,ADC Cytotoxin
In vitro	Dolastatin 10, a unique pentapeptide isolated from the sea hare Dolabella auricularia, has GI50 values of 10 ⁻⁵ -10 ⁻⁶ µg/mL (10 ⁻² -10 ⁻³ nM) against a similar minipanel of human cell lines, comparable to Auristatin PE. The antibody-drug conjugate (ADC) consists of the anti-CD30 monoclonal antibody cAC10 conjugated to monomethyl auristatin E (MMAE), a synthetic analog of the tubulin polymerization inhibitor Dolastatin 10.

Solubility Information

Solubility	DMSO: 100 mg/mL (127.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2737 mL	6.3687 mL	12.7374 mL
5 mM	0.2547 mL	1.2737 mL	2.5475 mL
10 mM	0.1274 mL	0.6369 mL	1.2737 mL
50 mM	0.0255 mL	0.1274 mL	0.2547 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

Pitot HC, et al. Phase I trial of dolastatin-10 (NSC 376128) in patients with advanced solid tumors. Clin Cancer Res. 1999 Mar;5(3):525-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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