TargetMol
A DRUG SCREENING EXPERT

Dolastatin 10

Chemical Properties

CAS No.:	110417-88-4
Formula:	C42H68N6O6S
Molecular Weight:	785.09
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Dolastatin 10 is a potent antimitotic polypeptide isolated from a marine animal and is developed as a potential antitumor agent. Dolastatin 10 is found to have activity to inhibit tubulin polymerization with IC50 value of 1.2μM.
In vitro	Dolastatin 10 is a unique pentapeptide that isolated from the sea hare Dolabella auricularia. These in vitro data are quite comparable to those of Dolastatin 10 and Auristatin PE, each of which has GI50 values of 10−5-10−6 μg/mL (10−2-10−3 nM) against a similar minipanel of human cell lines[2]. The antibody-drug conjugate (ADC) comprises the anti-CD30 monoclol antibody cAC10 conjugated to the cytotoxic agent monomethyl auristatin E (MMAE), a synthetic alog of the tubulin polymerization inhibitor Dolastatin 10[3].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.274 mL	6.369 mL	12.737 mL
5 mM	0.255 mL	1.274 mL	2.547 mL
10 mM	0.127 mL	0.637 mL	1.274 mL
50 mM	0.025 mL	0.127 mL	0.255 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference
1. 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.

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