MC-Val-Cit-PAB-Auristatin E

Cat. No.: HY-128899

CAS No.: 2055896-77-8

Molecular Formula: $C_{68}H_{108}N_{11}O_{13}$

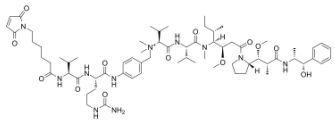
Molecular Weight: 1287.65

Target: Drug-Linker Conjugates for ADC

Pathway: Antibody-drug Conjugate/ADC Related

Storage: 4°C, sealed storage, away from moisture and light

* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (155.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7766 mL	3.8830 mL	7.7661 mL
	5 mM	0.1553 mL	0.7766 mL	1.5532 mL
	10 mM	0.0777 mL	0.3883 mL	0.7766 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 5 mg/mL (3.88 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 5 mg/mL (3.88 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (3.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MC-Val-Cit-PAB-Auristatin E is a drug-linker conjugate for ADC with potent antitumor activity by using Auristatin E (a cytotoxic tubulin modifier), linked via the ADC linker MC-Val-Cit-PAB.

IC_{50} & Target

Auristatin

REFERENCES

[1]. Staben LR, et al. Targeted drug delivery through the traceless release of tertiary and heteroaryl amines from antibody-drug conjugates. Nat Chem. 2016 Dec;8(12):1112-1119.

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