(4-NH2)-Exatecan

Cat. No.: HY-145397

CAS No.: 2495742-21-5

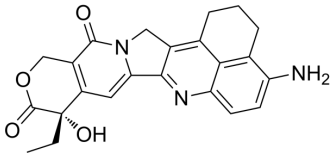
Molecular Formula: $C_{23}H_{21}N_3O_4$

Molecular Weight: 403.43

Target: ADC Cytotoxin; Topoisomerase

Pathway: Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (247.87 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4787 mL	12.3937 mL	24.7874 mL
	5 mM	0.4957 mL	2.4787 mL	4.9575 mL
	10 mM	0.2479 mL	1.2394 mL	2.4787 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: 2.5 mg/mL (6.20 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(4-NH2)-Exatecan, a topoisomerase inhibitor, is a derivative of Exatecan. (4-NH2)-Exatecan can be used in the synthesis of antibody-drug conjugates (ADCs) (US20200306243A1, compound A)[1].

IC_{50} & Target

Camptothecins

In Vitro

(4-NH2)-Exatecan contains a linker for connecting to a Ligand Unit, wherein the linker is attached in a cleavable manner to the amino residue, characterized by the addition of an amino (NH2) functional group at the 4th position of the parent molecule[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Howard PW, et, al. Compounds and conjugates thereof. US20200306243A1.

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