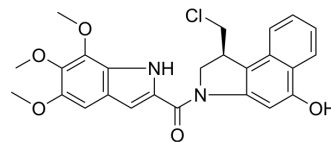


Duocarmycin TM

Cat. No.:	HY-107769		
CAS No.:	157922-77-5		
Molecular Formula:	C ₂₅ H ₂₃ ClN ₂ O ₅		
Molecular Weight:	466.91		
Target:	ADC Cytotoxin; DNA Alkylator/Crosslinker; Antibiotic		
Pathway:	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (107.09 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1417 mL	10.7087 mL	21.4174 mL
	5 mM	0.4283 mL	2.1417 mL	4.2835 mL
	10 mM	0.2142 mL	1.0709 mL	2.1417 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (5.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Duocarmycin TM (CBI-TMI) is a potent antitumor antibiotic. Duocarmycin TM induces a sequence-selective alkylation of duplex DNA.

IC₅₀ & Target

Duocarmycins

In Vitro

Duocarmycin TM (60 μM; 4 d; BJAB and WSU-DLCL2 cells) is a cytotoxic agent that inhibits the proliferation of tumor cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Viability Assay^[1]

Cell Line:	BJAB and WSU-DLCL2 cells
Concentration:	60 μ M
Incubation Time:	4 days
Result:	Inhibited the proliferation of tumor cells with IC ₅₀ values of 0.153 μ M and 0.079 μ M for BJAB and WSU-DLCL2 cells, respectively.

CUSTOMER VALIDATION

- Cell Chem Biol. 2021 Oct 23;S2451-9456(21)00439-6.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zhang D, et, al. Immobilization of p-Aminobenzyl Ether Linker and Payload Potency and Stability Determine the Cell-Killing Activity of Antibody-Drug Conjugates with Phenol-Containing Payloads. Bioconjug Chem. 2018 Feb 21;29(2):267-274.

Caution: Product has not been fully validated for medical applications. For research use only.

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