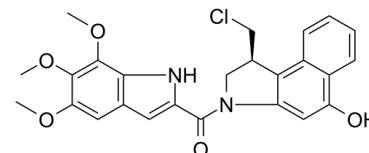


Data Sheet

Product Name:	Duocarmycin TM
Cat. No.:	CS-0029985
CAS No.:	157922-77-5
Molecular Formula:	C ₂₅ H ₂₃ ClN ₂ O ₅
Molecular Weight:	466.91
Target:	ADC Cytotoxin; Antibiotic; DNA Alkylator/Crosslinker
Pathway:	Antibody-drug Conjugate/ADC Related; Anti-infection; Cell Cycle/DNA Damage
Solubility:	DMSO : ≥ 50 mg/mL (107.09 mM)



BIOLOGICAL ACTIVITY:

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

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.

CAIndexNames:

1H-Benz[e]indol-5-ol, 1-(chloromethyl)-2,3-dihydro-3-[(5,6,7-trimethoxy-1H-indol-2-yl)carbonyl]-, (1S)-

SMILES:

C1C[C@H]1C2=C(C=CC=C3)C3=C(O)C=C2N(C(C4=CC(C=C(OC)C(OC)=C5OC)=C5N4)=O)C1

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

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