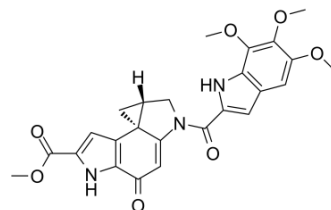


Duocarmycin SA

Cat. No.:	HY-12456
CAS No.:	130288-24-3
Molecular Formula:	C ₂₅ H ₂₃ N ₃ O ₇
Molecular Weight:	477.47
Target:	ADC Cytotoxin
Pathway:	Antibody-drug Conjugate/ADC Related
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description

Duocarmycin SA is a potent antitumor antibiotic with an IC₅₀ of 10 pM^[1]. Duocarmycin SA is an extremely potent cytotoxic agent capable of inducing a sequence-selective alkylation of duplex DNA. Duocarmycin SA demonstrates synergistic cytotoxicity against glioblastoma multiforme (GBM) cells treated with proton radiation in vitro^[2].

REFERENCES

[1]. MacMillan KS, et al. Synthesis and evaluation of a thio analogue of duocarmycin SA. *Bioorg Med Chem Lett*. 2009 Dec 15;19(24):6962-5.

[2]. Boyle KE, et al. Duocarmycin SA, a potent antitumor antibiotic, sensitizes glioblastoma cells to proton radiation. *Bioorg Med Chem Lett*. 2018 Sep 1;28(16):2688-2692.

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

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