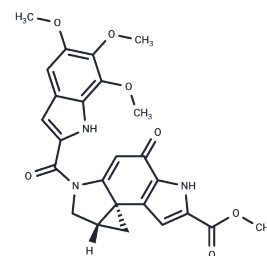


Duocarmycin SA

Chemical Properties

CAS No. :	130288-24-3
Formula:	C ₂₅ H ₂₃ N ₃ O ₇
Molecular Weight:	477.47
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Duocarmycin SA is an extremely potent cytotoxic agent and antitumor antibiotic that induces sequence-selective alkylation of duplex DNA, with an IC ₅₀ of 10 pM. It demonstrates synergistic cytotoxicity against glioblastoma multiforme (GBM) cells when combined with proton radiation in vitro.
Targets(IC ₅₀)	Apoptosis, Antibiotic, ADC Cytotoxin, DNA Alkylator/Crosslinker, Necroptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0944 mL	10.4719 mL	20.9437 mL
5 mM	0.4189 mL	2.0944 mL	4.1887 mL
10 mM	0.2094 mL	1.0472 mL	2.0944 mL
50 mM	0.0419 mL	0.2094 mL	0.4189 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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.
- 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481