

Product Data Sheet

Product Name: Duocarmycin SA

Cat. No.: GC35912

Chemical Properties

Cas. No. 130288-24-3

SMILES O=C(C(N1)=CC([C@@]23[C@@](C3)([H])CN(C(C(N4)=CC5=C4C(OC)=C(OC)C(OC)=C5)=O)C2=C6)=C1C6=O)OC

Formula $C_{25}H_{23}N_3O_7$ M.Wt 477.47

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

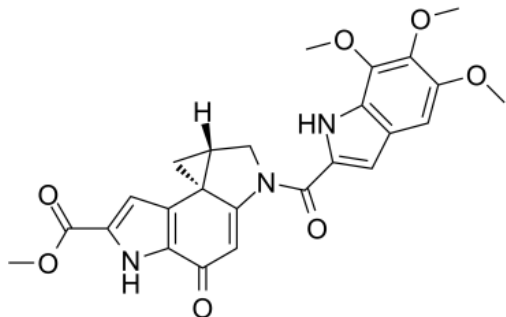
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

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].

[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.

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