

Product Data Sheet

Product Name: Daunorubicinone

Cat. No.: GC48581

Chemical Properties

Cas. No. 21794-55-8

SMILES O=C1C2=C(O)C([C@H](C[C@@](O)(C3)C(C)=O)O)=C3C(O)=C2C(C4=CC=CC(OC)=C41)=O

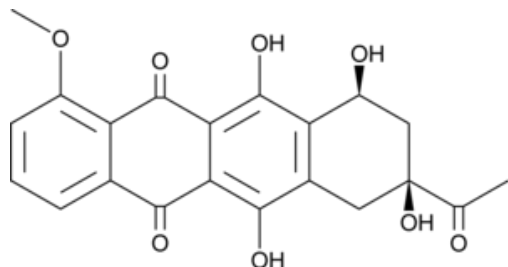
Formula C₂₁H₁₈O₈ M.Wt 398.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO: PBS (pH 7.2) (1:2): 0.33 mg/ml, Ethanol: slightly soluble Storage -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.

Structure



Background

Daunorubicinone is an aglycone form of the antitumor antibiotic daunorubicin.¹ It has been used as a starting material in the synthesis of anticancer agents.^{2,3}

1. Arcamone, F., Franceschi, G., Orezzi, P., et al. Daunomycin. I. The structure of daunomycinone. *J. Am. Chem. Soc.* 86(23)5334-5335 (1964)
2. Aligiannis, N., Pouli, N., Marakos, P., et al. Synthesis and cytotoxic activity of a new potent daunomycinone derivative. *Bioorg. Med. Chem.* 12(24)3505-3507 (2002)
3. Baer, H.H., and Siemsen, L. Synthesis and biological activity of (S)-2'-fluorodaunorubicin. *Can. J. Chem.* 66(1)187-190 (1988)

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