

Product Data Sheet

Product Name: Aranciamycin

Cat. No.: GC46878

Chemical Properties

Cas. No. 72389-06-1

SMILES O=C1C2=CC3=C([C@@H](O[C@H]4[C@H](OC)[C@H](O)[C@@H](O)[C@H](C)O4)[C@H](OC)[C@](C)(O)C3=O)C(O)=C2C(C5=C(O)C=CC=C51)=O

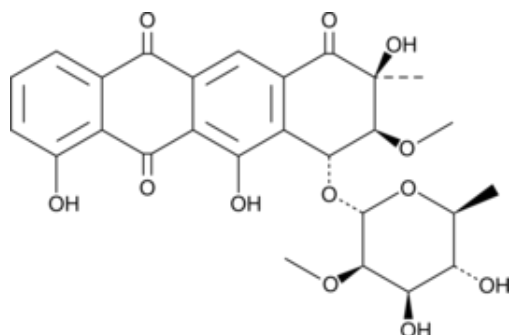
Formula C₂₇H₂₈O₁₂ M.Wt 544.5

Solubility Dichloromethane: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble
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.

Structure



Background

Aranciamycin is a fungal metabolite that has been found in *Streptomyces* and has diverse biological activities.^{1,2} It inhibits *C. histolyticum* collagenase but not elastase or trypsin in cell-free assays (IC₅₀s = 0.37, >10, and >10 μM, respectively).¹ Aranciamycin is active against *M. bovis* and *B. subtilis* (MICs = 30 and 15 μM, respectively).² It is cytotoxic to HepG2 cells (IC₅₀ = 18 μM).

1. Bols, M., Biderup, L., Hansen, J., et al. Inhibition of collagenase by aranciamycin and aranciamycin derivatives. *J. Med. Chem.* 35(15)1768-2771 (1992)
2. Khalil, Z.G., Raju, R., Piggott, A.M., et

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

al.Aranciamycins I and J, antimycobacterial anthracyclines from an Australian marine-derived *Streptomyces* spJ. Nat. Prod.78(4)949-952(2015)

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