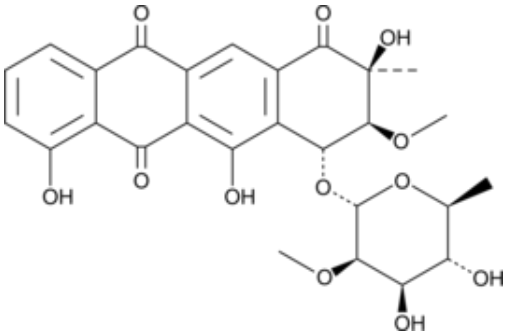
Product Data Sheet

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 (IC_{50}s = 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 (IC_{50} = 18 µM).

1.Bols, M., Biderup, L., Hansen, J., et al.Inhibition of collagenase by aranciamycin and aranciamycin derivativesJ. 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.
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al.Aranciamycins I and J, antimycobacterial anthracyclines from an Australian marine-derived Streptomyces spJ. Nat. Prod.78(4)949-952(2015)