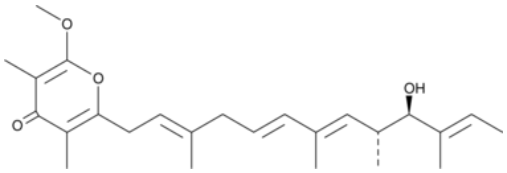
Product Data Sheet

Product Name: Actinopyrone A
Cat. No.: GC41316

Chemical Properties

Cas. No.	88378-59-0		
SMILES	COC1=C(C)C(C(C)=C(C/C=C(C)/C/C=C/C(C)=C/[C@@H](C)[C@@H](O)/C(C)=C/C)O1)=O		
Formula	C25H36O4	M.Wt	400.6
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.		
Structure			

Background

Actinopyrone A is a pyrone isolated from S. pactum with diverse biological activities. It has selective and potent antimicrobial activity against H. pylori (MIC = 0.1 ng/mL) with no activity against other Gram-negative bacteria including E. coli, K. pneumoniae, P. aeruginosa, and B. fragilis. Actinopyrone A also mildly inhibits growth of Gram-positive bacteria and dermatophytes with MIC values ranging from <6.25 to 25 µg/mL. Intravenous administration of actinopyrone A (30 µg/kg) increases coronary blood flow in dogs by 196.2%.

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