Product Data Sheet

Product Name: Deoxyenterocin
Cat. No.: GC18869

Chemical Properties

Cas. No.	108605-51-2		
Chemical Name	(3S,4aR,5S,6S,7S,7aS)-7-benzoylhexahydro-4a,6,7a-trihydroxy-5-(4-methoxy-2-oxo-2H-pyran-6-yl)-3,6-methanocyclopenta[c]pyran-1(3H)-one		
SMILES	O=C1[C@@]2(O)[C@@]([C@@H](C(O3)=CC(OC)=CC3=O)[C@]4(O)[C@@H]2C(C5=CC=CC=C5)=O)(O)C[C@@](C4)([H])O1		
Formula	$C_{22}H_{20}O_9$	M.Wt	428.4
Solubility	DMF: 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 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Deoxyenterocin		

Background

Deoxyenterocin is a bacterial metabolite originally isolated from Streptomyces that has diverse biological activities, including antibiotic, antiviral, and antioxidant properties. It inhibits the growth of S. lutea, S. aureus, K. pneumoniae, and V. percolans in vitro when used at a concentration of 500 µg/ml. Deoxyenterocin (50 µg/ml) inhibits the cytopathic effect of influenza A H1N1 virus by 60.6% in vitro. It also prevents hydrogen peroxide-induced decreases in glutathione (GSH) levels and in the mitochondrial membrane potential in mouse primary cortical neuronal cultures when used at a concentration of 1 µM.

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