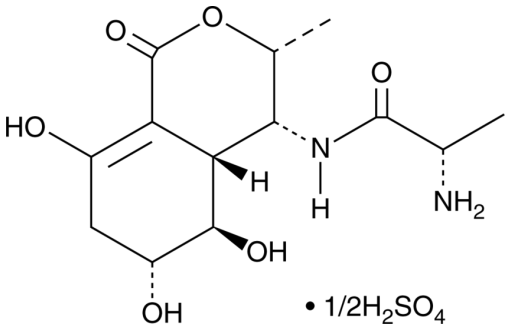
Product Data Sheet

Product Name: Actinobolin (hemisulfate)
Cat. No.: GC91962

Chemical Properties

Cas. No.	18802-17-0		
Chemical Name	2S-amino-N-[(3R,4R,4aR,5R,6R)-3,4,4a,5,6,7-hexahydro-5,6,8-trihydroxy-3-methyl-1-oxo-1H-2-benzopyran-4-yl]-propanamide, hemisulfate		
SMILES	O=S(O)(O)=O.[H][C@@]12[C@H]([C@@H](CC(O)=C1C(O[C@@H]([C@@H]2NC([C@H](C)N)=O)C)=O)O)O.[H][C@@]34[C@H]([C@@H](CC(O)=C3C(O[C@@H]([C@@H]4NC([C@H](C)N)=O)C)=O)O)O		
Formula	$C_{13}H_{20}N_2O_6$? $1/2H_2SO_4$	M.Wt	349.3
Solubility		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

Actinobolin is a microbial metabolite that has been found in *Pseudomonas* and has antibiotic and anticancer activities.[1] It is active against *E. coli* (MIC = 170 ?M). Actinobolin decreases protein synthesis in *E. coli* (IC_{50} = 30 ?M). It inhibits the proliferation of adenocarcinoma 755 cells (IC_{50} = 70 ?M).[2]

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References:

[1]. Hori, M., Suzukake, K., Ishikawa, C., et al.Biochemical studies on bactobolin in relation to actinobolinJ. Antibiot. (Tokyo)34(4)465-468(1981).

[2]. Smithers, D., Bennett, L.L., Jr., and Struck, R.F.Inhibiton of protein synthesis in mammalian cells by actinobolinMol. Pharmacol.5(5)433-445(11969).

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

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