

## 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)[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

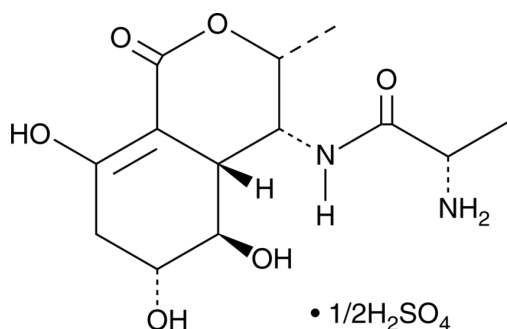
Formula  $C_{13}H_{20}N_2O_6 \cdot 1/2H_2SO_4$  M.Wt 349.3

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.<sup>1</sup> It is active against *E. coli* (MIC = 170 ?M). Actinobolin decreases protein synthesis in *E. coli* (IC<sub>50</sub> = 30 ?M). It inhibits the proliferation of adenocarcinoma 755 cells (IC<sub>50</sub> = 70 ?M).<sup>2</sup>

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### References:

- [1]. Hori, M., Suzukake, K., Ishikawa, C., et al. Biochemical studies on bactobolin in relation to actinobolin. *J. Antibiot. (Tokyo)* 34(4)465-468(1981).
- [2]. Smithers, D., Bennett, L.L., Jr., and Struck, R.F. Inhibition of protein synthesis in mammalian cells by actinobolin. *Mol. Pharmacol.* 5(5)433-445(1969).

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