

Product Data Sheet

Product Name: Forphenicine

Cat. No.: GC49074

Chemical Properties

Cas. No. 57784-96-0

SMILES OC([C@H](C1=CC(O)=C(C=C1)C=O)N)=O

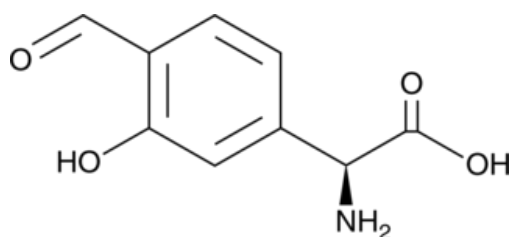
Formula C₉H₉NO₄ M.Wt 195.2

Solubility N/A 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

Forphenicine is a bacterial metabolite that has been found in *S. fulvoviridis* and an inhibitor of alkaline phosphatase (IC₅₀ = 0.036 µg/ml for the chicken intestine enzyme).¹ It inhibits the growth of HL-60 leukemia cells when used at a concentration of 10 µM.² Forphenicine (50 and 500 µg/animal) increases survival in a guinea pig model of experimental autoimmune encephalomyelitis (EAE).³

1. Aoyagi, T., Yamamoto, T., Kojiri, K., et al. Forphenicine, and inhibitor of alkaline phosphatase produced by actinomycetes. *J. Antibiot. (Tokyo)* 31(3):244-246 (1978) 2. Miura, K., Sawa, T., Takeuchi, T., et al. Effects of enzyme inhibitors in inhibiting the growth and inducing the differentiation of human promyelocytic leukemia cells, HL-60. *J. Antibiot. (Tokyo)* 39(5):734-735 (1986) 3. Aoyagi, T., Wada, T., Nagai, M., et al. Low-molecular-weight enzyme inhibitors suppress the development of experimental allergic encephalomyelitis. *Experientia* 40(12):1405-1407 (1984)

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

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