

Product Data Sheet

Product Name: Enniatin A1

Cat. No.: GC43610

Chemical Properties

Cas. No. 4530-21-6

SMILES C[C@@H](CC)[C@]([H])(N(C)C([C@@H](C(C)C)OC([C@H]([C@H](CC)C)N(C)C1=O)=O)=O)C(O[C@]([H])(C(C)C)C(N(C)[C@@H](C(C)C)C(O[C@@H]1C(C)C)=O)=O)=O

Formula C₃₅H₆₁N₃O₉

M.Wt 667.9

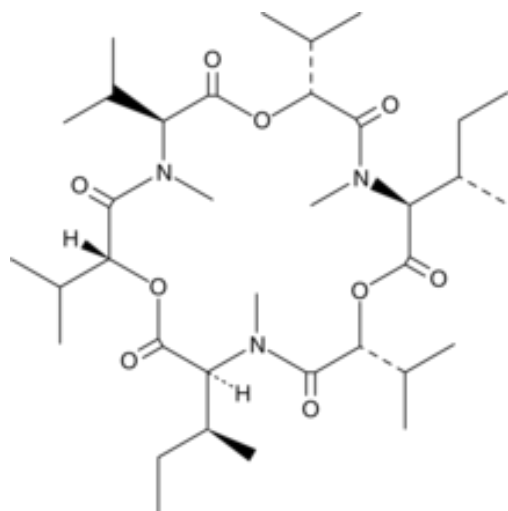
Solubility DMF: Soluble, DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °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

Enniatins are cyclohexadepsipeptides commonly isolated from fungi that are known to have antibiotic properties and to induce apoptosis in several cancer lines. Many function as ionophores, forming pores in cellular membranes to allow selective ion transport. Enniatin A1 is one of four major analogs in the enniatin complex. Its ionophoric activity has been described. Additionally, enniatin A1 has

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

been found to induce apoptosis in cancer cells ($EC_{50} = 5 \mu M$ in H4IIE rat hepatoma cells), decreasing the activation of the cell proliferation kinase, ERK (p44/p42) and inhibiting TNF- α -induced NF- κ B activation.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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