

Product Data Sheet

Product Name: Ansatrienin A

Cat. No.: GC42815

Chemical Properties

Cas. No. 82189-03-5

SMILES O=C(N[C@H](C)C(O[C@H]([C@H](C)[C@@H](O)/C(C)=C\CCC(C(C(N1)=C2)=O)=CC2=O)C/C=C/C=C/C=C/[C@H](OC)CC1=O)=O)C3CCCCC3

Formula C₃₆H₄₈N₂O₈

M.Wt 636.8

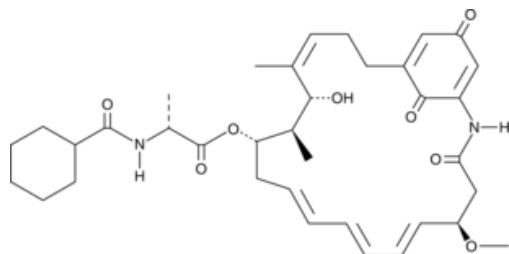
Solubility DMF: soluble, DMSO: soluble, Ethanol: soluble, Methanol: soluble

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

Ansatrienin A is an ansamycin antibiotic and antifungal agent first isolated from *S. collinus* and *S. rishiriensis*. In fetal rat long bones, it is an inhibitor of parathyroid hormone-induced calcium release (IC₅₀ = 64 nM), which is a measure of bone resorption, and pp60c-srcM kinase (IC₅₀ = 100 nM). It also inhibits TNF-α-induced expression of intercellular adhesion molecule-1 (ICAM-1; IC₅₀ = 570 nM). Early in vitro studies showed that ansatrienin A potentiates the chemotherapeutic action of 5-fluorouracil, cisplatin, bleomycin, mitomycin C, and 6-mercaptopurine. It is an oxidized form of ansatrienin B.

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

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