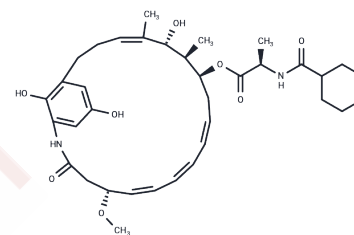


Ansatrienin B

Chemical Properties

CAS No. : 82189-04-6
 Formula: C₃₆H₅₀N₂O₈
 Molecular Weight: 638.802
 Storage: Store under nitrogen,
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ansatrienin B is an ansamycin antibiotic and antifungal agent first isolated from <i>S. collinus</i> and <i>S. rishiriensis</i> . Ansatrienin B inhibits parathyroid hormone-induced calcium release in fetal rat long bones (IC ₅₀ = 21 nM), pp60c-src kinase (IC ₅₀ = 50 nM), and protein synthesis via L-leucine incorporation inhibition (IC ₅₀ = 58 nM in A549 cells), and also suppresses TNF- α -induced ICAM-1 expression (IC ₅₀ = 300 nM). Ansatrienin B is used in biochemical and pharmacological research systems to investigate translation inhibition, kinase signaling modulation, bone resorption pathways, and inflammatory adhesion molecule regulation in cellular and organotypic models.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	Ethanol: Soluble DMF: Soluble DMSO: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5654 mL	7.8272 mL	15.6544 mL
5 mM	0.3131 mL	1.5654 mL	3.1309 mL
10 mM	0.1565 mL	0.7827 mL	1.5654 mL
50 mM	0.0313 mL	0.1565 mL	0.3131 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhu X, Wu X, Li H, Zhang M, Yu D, Wang Z, et al. Undescribed ansatrienin analogs from *Streptomyces flaveolus* including two N-acetylcysteine conjugates. *Phytochemistry*. 2025 Nov;239:114598. doi:10.1016/j.phytochem.2025.114598 PubMed PMID: 40550347.

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