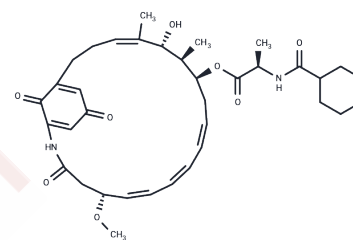


## Ansatrienin A

## Chemical Properties

CAS No. : 82189-03-5  
 Formula: C<sub>36</sub>H<sub>48</sub>N<sub>2</sub>O<sub>8</sub>  
 Molecular Weight: 636.786  
 Storage: 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 A is an ansamycin antibiotic and antifungal agent first isolated from <i>S. collinus</i> and <i>S. rishiriensis</i> . In fetal rat long bones, it is an inhibitor of parathyroid hormone-induced calcium release (IC <sub>50</sub> = 64 nM), which is a measure of bone resorption, and pp60c-srcM kinase (IC <sub>50</sub> = 100 nM). It also inhibits TNF- $\alpha$ -induced expression of intercellular adhesion molecule-1 (ICAM-1; IC <sub>50</sub> = 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.
Targets(IC <sub>50</sub> )	Others, Antibiotic, Antifungal

## Solubility Information

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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.5704 mL	7.8519 mL	15.7038 mL
5 mM	0.3141 mL	1.5704 mL	3.1408 mL
10 mM	0.157 mL	0.7852 mL	1.5704 mL
50 mM	0.0314 mL	0.157 mL	0.3141 mL

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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.

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