

Tetranactin

Chemical Properties

CAS No. :	33956-61-5
Formula:	C ₄₄ H ₇₂ O ₁₂
Molecular Weight:	793.05
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Tetranactin is a macrolide ionophore antibiotic produced by Streptomyces bacteria. It belongs to the nonactin family of compounds and selectively chelates monovalent cations such as potassium ions, promoting their transmembrane transport and thereby disrupting cellular ion homeostasis. Tetranactin is commonly used to study mechanisms related to mitochondrial membrane potential, ion transport, and the inhibition of fungal or bacterial growth.
Targets(IC50)	Antibacterial,Antibiotic,Antifungal
In vivo	In vivo, Tetranactin (10 mg/animal per day) completely inhibits the formation of experimental autoimmune uveoretinitis in rats.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.261 mL	6.3048 mL	12.6095 mL
5 mM	0.2522 mL	1.261 mL	2.5219 mL
10 mM	0.1261 mL	0.6305 mL	1.261 mL
50 mM	0.0252 mL	0.1261 mL	0.2522 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

K Ando, H Oishi, et al. tetranactin, a new mitocidal antibiotic. I. Isolation, characterization and properties of tetranactin. J Antibiot (Tokyo). 1971 Jun;24(6):347-52.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481