

Minecoside

Chemical Properties

CAS No. :	51005-44-8
Formula:	C ₂₅ H ₃₀ O ₁₃
Molecular Weight:	538.50
Storage:	Keep away from direct sunlight, 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	Minecoside is a CXCR4/STAT3 inhibitor with anticancer and anti-inflammatory activity. Minecoside decreases CXCR4 expression and suppresses STAT3 activation, thereby inhibiting CXCL12-induced invasion. Minecoside is utilized in biomedical research investigating chemokine receptor signaling, STAT3-dependent transcriptional regulation, metastatic invasion mechanisms, and apoptotic pathway modulation in disease models.
Targets(IC50)	Others,STAT,CXCR

Solubility Information

Solubility	DMSO: 4 mg/mL (7.43 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.857 mL	9.2851 mL	18.5701 mL
5 mM	0.3714 mL	1.857 mL	3.714 mL
10 mM	0.1857 mL	0.9285 mL	1.857 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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

Kim B, et al. Minecoside Modulates Cell Invasion via Regulation of CXCR4 Expression in Breast and Colon Cancer Cells. *Planta Med.* 2020 Mar;86(5):331-337.

Kim B, et al. Minecoside promotes apoptotic progression through STAT3 inactivation in breast cancer cells. *Oncol Lett.* 2022 Mar;23(3):94.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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