

Cytostatin (sodium salt)

Chemical Properties

CAS No. :	457070-06-3
Formula:	C ₂₁ H ₃₃ NaO ₇ P
Molecular Weight:	451.452
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	Cytostatin (sodium salt) is a natural antitumor inhibitor of cell adhesion to extracellular matrix, blocking adhesion of B16 melanoma cells to laminin and collagen type IV in vitro (IC ₅₀ s = 1.3 and 1.4 µg/ml, respectively) and B16 cells metastatic activity in mice. It induces apoptosis of FS3 mouse fibrosarcoma cells (IC ₅₀ = 3.1 µg/ml). Cytostatin (sodium salt) potently and selectively inhibits protein phosphatase 2A (PP2A; IC ₅₀ = 29 nM against the catalytic subunit), while having no effect against PP1, PP2B, or PP5.
Targets(IC ₅₀)	Apoptosis,Others,Phosphatase

Solubility Information

Solubility	Methanol: Soluble H ₂ O: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2151 mL	11.0754 mL	22.1508 mL
5 mM	0.443 mL	2.2151 mL	4.4302 mL
10 mM	0.2215 mL	1.1075 mL	2.2151 mL
50 mM	0.0443 mL	0.2215 mL	0.443 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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