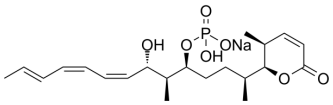
Cytostatin sodium

Cat. No.:	HY-113612A
CAS No.:	457070-06-3
Molecular Formula:	$C_{21}H_{32}NaO_7P$
Molecular Weight:	450.44
Target:	Apoptosis; Phosphatase
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cytostatin sodium is an effective and selective protein phosphatase 2A (PP2A) inhibitor with an IC_{50} value of 210 nM. Cytostatin sodium exhibits anti-metastatic properties, good antitumor activity, and can induce apoptosis. Cytostatin sodium can also prevent the adhesion of B16 melanoma cells to components of the extracellular matrix (laminin and collagen). Cytostatin sodium belongs to the family of natural product fosriecin[1][2][3][4].
IC_{50} & Target	IC50: 210 nM (PP2A)[1].

REFERENCES

[1]. Bialy L, et al. Total synthesis and biological evaluation of the protein phosphatase 2A inhibitor cytostatin and analogues. Chemistry. 2004;10(11):2759-2780.

[2]. Lawhorn BG, et al. Total synthesis and evaluation of cytostatin, its C10-C11 diastereomers, and additional key analogues: impact on PP2A inhibition. J Am Chem Soc. 2006;128(51):16720-16732.

[3]. Kawada M, et al. Cytostatin, an inhibitor of cell adhesion to extracellular matrix, selectively inhibits protein phosphatase 2A. Biochim Biophys Acta. 1999;1452(2):209-217.

[4]. Kawada M, et al. Differential induction of apoptosis in B16 melanoma and EL-4 lymphoma cells by cytostatin and bactobolin. Jpn J Cancer Res. 1999;90(2):219-225.

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