
Product Data Sheet

Product Name: Cytostatin

Cat. No.: GC43360

Chemical Properties

Cas. No. 682329-63-1

SMILES O=C1O[C@]([C@@H](C)CC[C@H](OP(O)(O)=O)[C@@H](C)[C@@H](O)/C=C\C=C/C=C/C)([H])[C@@H](C)C=C1

Formula	C ₂₁ H ₃₃ O ₇ P	M.Wt	428.5
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Cytostatin 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 (IC₅₀s = 1.3 and 1.4 µg/ml, respectively) and B16 cells metastatic activity in mice. It induces apoptosis of FS3 mouse fibrosarcoma cells (IC₅₀ = 3.1 µg/ml). Cytostatin potently and selectively inhibits protein phosphatase 2A (PP2A; IC₅₀ = 29 nM against the catalytic subunit), while having no effect against PP1, PP2B, or PP5.

Caution: Product has not been fully validated for medical applications. For research use only.

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