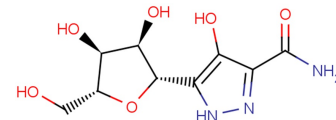


Pyrazofurin

Chemical Properties

CAS No.:	30868-30-5
Formula:	C ₉ H ₁₃ N ₃ O ₆
Molecular Weight:	259.22
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Pyrazofurin is a pyrimidine nucleoside analogue, inhibits cell proliferation and DNA synthesis in cells by inhibiting UMP synthase. Pyrazofurin is a sensitive orotate-phosphoribosyltransferase inhibitor (IC ₅₀ s between 0.06-0.37 μM in the cell lines Hep-2, HNSCC-14B, and HNSCC-14C).
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.858 mL	19.289 mL	38.577 mL
5 mM	0.772 mL	3.858 mL	7.715 mL
10 mM	0.386 mL	1.929 mL	3.858 mL
50 mM	0.077 mL	0.386 mL	0.772 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Ringer DP, et al. Alteration in de novo pyrimidine biosynthesis during uridine reversal of pyrazofurin-inhibited DNA synthesis. *Neuropsychopharmacology. J Biochem Toxicol.* 1991 Spring;6(1):19-27.
- Peters GJ, et al. Antiprimidine effects of five different pyrimidine de novo synthesis inhibitors in three head and neck cancer cell lines. *Nucleosides Nucleotides Nucleic Acids.* 2018;37(6):329-339.

Inhibitors · Natural Compounds · Compound Libraries

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