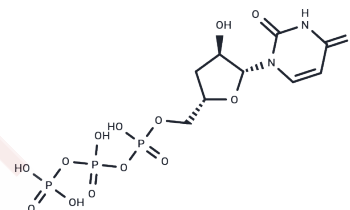


3'-Deoxyuridine-5'-triphosphate

Chemical Properties

CAS No. :	69199-40-2
Formula:	C ₉ H ₁₅ N ₂ O ₁₄ P ₃
Molecular Weight:	468.14
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	3'-Deoxyuridine-5'-triphosphate (3'-dUTP) is a nucleotide analogue that inhibits DNA-dependent RNA polymerases I and II and strongly competes with UTP incorporation into RNA, with a K_i value of 2.0 μ M[1].
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others,Endogenous Metabolite,DNA/RNA Synthesis
In vitro	3'-Deoxyuridine-5'-triphosphate (3'-dUTP), efficiently synthesized from cordycepin, is a potent competitive inhibitor of UTP incorporation into RNA by RNA polymerases. Its lack of effect on poly (rA) synthesis suggests its utility in dissecting template and substrate relationships within RNA synthesis, particularly in contexts involving chromatin, isolated nuclei, or permeable cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1361 mL	10.6806 mL	21.3611 mL
5 mM	0.4272 mL	2.1361 mL	4.2722 mL
10 mM	0.2136 mL	1.0681 mL	2.1361 mL
50 mM	0.0427 mL	0.2136 mL	0.4272 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

M Saneyoshi, et al. Inhibitory Effects of 3'deoxycytidine 5'-triphosphate and 3'-deoxyuridine 5'-triphosphate on DNA-dependent RNA Polymerases I and II Purified From Dictyostelium Discoideum Cells. Nucleic Acids Res. 1981 Jul 10;9(13):3129-38.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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