

## 3'-Deoxyuridine-5'-triphosphate trisodium

### Chemical Properties

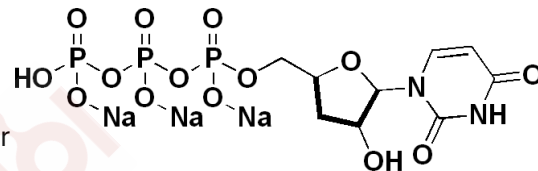
CAS No. :

Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>Na<sub>3</sub>O<sub>14</sub>P<sub>3</sub>

Molecular Weight: 534.08

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 trisodium (3'-dUTP trisodium) is a nucleotide analogue that inhibits DNA-dependent RNA polymerases I and II by competitively blocking UTP incorporation into RNA with a dissociation constant (K <sub>i</sub> ) of 2.0 μM[1].
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others,Endogenous Metabolite,DNA/RNA Synthesis
In vitro	3'-Deoxyuridine-5'-triphosphate (3'-dUTP), synthesized from cordycepin in good yield, strongly inhibits UTP incorporation into RNA by RNA polymerases competitively. It is useful for molecular studies on RNA synthesis with chromatin, isolated nuclei, or permeable cells, as it does not affect poly (rA) synthesis[1].

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8724 mL	9.3619 mL	18.7238 mL
5 mM	0.3745 mL	1.8724 mL	3.7448 mL
10 mM	0.1872 mL	0.9362 mL	1.8724 mL
50 mM	0.0374 mL	0.1872 mL	0.3745 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481