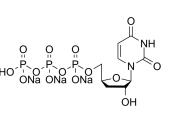


# Product Data Sheet

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

Cat. No.: Molecular Formula:	HY-135780A	
Molecular 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> 534.09	
Target:	Nucleoside Antimetabolite/Analog; DNA/RNA Synthesis; Endogenous Metabolite	0
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease	HO <sup>́P</sup> O
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	



## SOLVENT & SOLUBILITY

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.8723 mL	9.3617 mL	18.7234 mL
	5 mM	0.3745 mL	1.8723 mL	3.7447 mL
	10 mM	0.1872 mL	0.9362 mL	1.8723 mL
Please refer to the so	ubility information to select the app	propriate solvent.		

BIOLOGICAL ACTIVITY				
Description	3'-Deoxyuridine-5'-triphosphate trisodium (3'-dUTP trisodium) is a nucleotide analogue that inhibits DNA-dependent RNA polymerases I and II. 3'-Deoxyuridine-5'-triphosphate trisodium strongly and competitively inhibits the incorporations of UTP into RNA with a K <sub>i</sub> value of 2.0 μM <sup>[1]</sup> .			
In Vitro	3'-Deoxyuridine-5'-triphosphate (3'-dUTP) is synthesized starting from cordycepin in good yield. 3'-Deoxyuridine-5'- triphosphate strongly and competitively inhibits the incorporations of UTP into RNA by the RNA polymerases. 3'- Deoxyuridine-5'-triphosphate will be useful in studies at the molecular level on the relationship of template and substrate in RNA synthesis with chromatin, isolated nuclei or permeable cells, because it does not have any effect on poly (rA) synthesis [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

### REFERENCES

[1]. 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.

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

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