

Deoxythymidine-5'-triphosphate trisodium

Chemical Properties

CAS No. : 27821-54-1

Formula: C₁₀H₁₄N₂Na₃O₁₄P₃

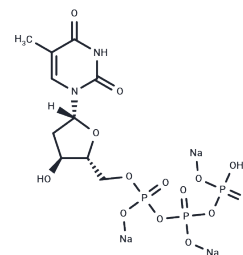
Molecular Weight: 548.11

Storage:

Keep away from moisture, Store at low temperature,
Keep away from direct sunlight

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	Deoxythymidine-5'-triphosphate trisodium (Deoxythymidine-5'-triphosphate (dTTP) trisodium salt) is one of the four natural deoxynucleotides. It is used for the biosynthesis of deoxyribonucleic acid by DNA polymerase and reverse transcriptase.
Targets(IC50)	Nucleoside Antimetabolite/Analog, Endogenous Metabolite, DNA/RNA Synthesis

Solubility Information

Solubility	H ₂ O: 100 mg/mL (182.45 mM), Sonication is recommended. DMSO: 5.49 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8245 mL	9.1223 mL	18.2445 mL
5 mM	0.3649 mL	1.8245 mL	3.6489 mL
10 mM	0.1824 mL	0.9122 mL	1.8245 mL
50 mM	0.0365 mL	0.1824 mL	0.3649 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

Bruce Stillman, et al. Deoxynucleoside triphosphate (dNTP) synthesis and destruction regulate the replication of both cell and virus genomes. Proc Natl Acad Sci U S A. 2013 Aug 27; 110(35):14120-1.

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