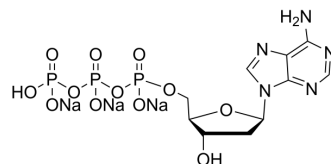


2'-Deoxyadenosine-5'-triphosphate trisodium

Cat. No.:	HY-136648A
CAS No.:	54680-12-5
Molecular Formula:	C ₁₀ H ₁₃ N ₅ Na ₃ O ₁₂ P ₃
Molecular Weight:	557.13
Target:	Endogenous Metabolite; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	4°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

In Vitro	H ₂ O : 250 mg/mL (448.73 mM; Need ultrasonic)			
	DMSO : 4.55 mg/mL (8.17 mM; ultrasonic and warming and heat to 80°C)			
		Solvent Concentration	Mass	
	Preparing Stock Solutions		1 mg	5 mg
	1 mM	1.7949 mL	8.9746 mL	17.9491 mL
	5 mM	0.3590 mL	1.7949 mL	3.5898 mL
	10 mM	0.1795 mL	0.8975 mL	1.7949 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (179.49 mM); Clear solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	2'-Deoxyadenosine-5'-triphosphate trisodium (dATP trisodium) is a nucleotide used in cells for DNA synthesis (or replication), as a substrate of DNA polymerase ^[1] .
IC₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. P J Romaniuk, A study of the mechanism of T4 DNA polymerase with diastereomeric phosphorothioate analogues of deoxyadenosine triphosphate. J Biol Chem. 1982 Jul 10;257(13):7684-8.

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

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