



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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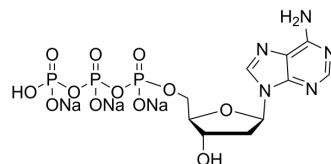
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## 2'-Deoxyadenosine-5'-triphosphate trisodium

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

<b>In Vitro</b>	H <sub>2</sub> 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 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (179.49 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2'-Deoxyadenosine-5'-triphosphate trisodium (dATP trisodium) is a nucleotide used in cells for DNA synthesis (or replication), as a substrate of DNA polymerase <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	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.

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

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