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Zuschläge

- Mindermengenzuschlag
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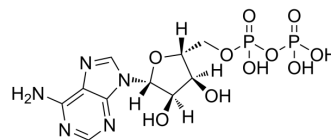
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Adenosine 5'-diphosphate

Cat. No.:	HY-W010918
CAS No.:	58-64-0
Molecular Formula:	C ₁₀ H ₁₅ N ₅ O ₁₀ P ₂
Molecular Weight:	427.2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (117.04 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.3408 mL	11.7041 mL	23.4082 mL
				5 mM	0.4682 mL	2.3408 mL	4.6816 mL
				10 mM	0.2341 mL	1.1704 mL	2.3408 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 (234.08 mM); Clear solution; Need ultrasonic and warming and heat to 60°C						

BIOLOGICAL ACTIVITY

Description	Adenosine 5'-diphosphate (Adenosine diphosphate) is a nucleoside diphosphate. Adenosine 5'-diphosphate is the product of ATP dephosphorylation by ATPases. Adenosine 5'-diphosphate induces human platelet aggregation and inhibits stimulated adenylate cyclase by an action at P _{2T} -purinoceptors.
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	Adenosine 5'-diphosphate consists of the pyrophosphate group, the pentose sugar ribose, and the nucleobase adenine. Adenosine 5'-diphosphate is the product of ATP dephosphorylation by ATPases. ADP is converted back to ATP by ATP synthases. ATP is an important energy transfer molecule in cells. Adenosine 5'-diphosphate is utilized in a wide number of cellular processes, including respiration, biosynthetic reactions, motility, and cell division. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Arts IC, et al. Adenosine 5'-triphosphate (ATP) supplements are not orally bioavailable: a randomized, placebo-controlled cross-over trial in healthy humans. *J Int Soc Sports Nutr.* 2012 Apr 17;9(1):16.
- [2]. Noel J. Cusack, et al. Effects of phosphate-modified analogs of adenosine 5'-diphosphate and adenosine 5'-triphosphate at P_{2T}-purinoceptors mediating human platelet activation by ADP. April 1996.
- [3]. Adenosine-5'-diphosphate
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Caution: Product has not been fully validated for medical applications. For research use only.

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