LKT Laboratories, Inc.

Adenosine Triphosphate Disodium

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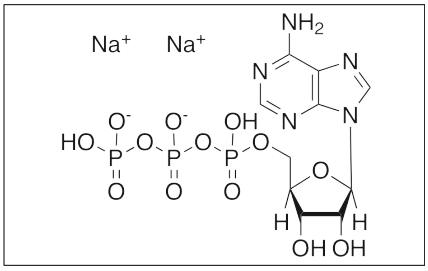
Product Information

Product ID A1319
CAS No. 987-65-5
Chemical Name Adenosine 5'-(tetrahydrogen triphosphate) disodium salt

Synonym Adenosine Triphosphate Disodium Salt, Adetphos, Atenen, Circulen, Trinosin

Formula $C_{10}H_{14}N_5Na_2O_{13}P_3 \cdot xH_2O$
Formula Wt. 551.14
Melting Point 187-190°C (dec)
Purity ≥95%
Solubility Soluble in water (50mg/mL).

Store Temp -20°C
Ship Temp Ambient



Bulk quanitites available upon request

Product ID	Size
A1319	1 g
A1319	5 g
A1319	10 g
A1319	25 g

Description Adenosine triphosphate (ATP) disodium is clinically used to inhibit reperfusion injury after myocardial infarction during percutaneous coronary intervention; it also improves left ventricular function in clinical settings. ATP itself is a coenzyme and unit of cellular energy. ATP is required for the production of nucleic acids, cAMP, and other signal transduction molecules. ATP is produced during photosynthesis, respiration, glycolysis, and other metabolic cycles.

References

Sakuma T, Motoda C, Tokuyama T, et al. Exogenous adenosine triphosphate disodium administration during primary percutaneous coronary intervention reduces no-reflow and preserves left ventricular function in patients with acute anterior myocardial infarction: a study using myocardial contrast echocardiography. Int J Cardiol. 2010 Apr 15;140(2):200-9. PMID: 19081151.

Tokuyama T, Sakuma T, Motoda C, et al. Intravenous administration of adenosine triphosphate disodium during primary percutaneous coronary intervention attenuates the transient rapid improvement of myocardial wall motion, not myocardial stunning, shortly after recanalization in acute anterior myocardial infarction. J Cardiol. 2009 Oct;54(2):289-96. PMID: 19782267.

Törnroth-Horsefield S, Neutze R. Opening and closing the metabolite gate. Proc Natl Acad Sci U S A. 2008 Dec 16;105(50):19565-6. PMID: 19073922.

Knowles JR. Enzyme-catalyzed phosphoryl transfer reactions. Annu Rev Biochem. 1980;49:877-919. PMID: 6250450.