

ATP Solution (10 mmol/L)

Cat. No.: A1518369 | Pack size: 10 mL | Storage: Store at -20°C

Overview

Adenosine triphosphate (ATP) is an unstable high-energy compound composed of one molecule of adenine, one molecule of ribose, and three phosphate groups. As the most direct source of energy in living organisms, ATP plays a critical role in various physiological and pathological processes within cells.

Changes in ATP levels directly affect cellular function. Typically, ATP levels significantly decrease during apoptosis, necrosis, or under toxic conditions, often accompanied by impaired mitochondrial function and a reduction in mitochondrial membrane potential. Conversely, intracellular ATP levels can be upregulated in response to certain stimuli, such as high glucose.

This product is an ATP solution at a concentration of 10 mmol/L, primarily composed of adenosine triphosphate and sterile Tris-HCl buffer. It is suitable for molecular biology and biochemistry research applications.

Procedure (For Reference Only)

Operate according to the specific requirements of the experiment.

Precautions

- This product is for research use only and is not intended for direct human application or clinical diagnosis.
- For your safety and health, please wear a lab coat and disposable gloves during operation.

Specifications

Attribute	Value
Synonyms	10 mM ATP Solution
Specifications & Purity	BioReagent, Suitable for molecular biology, 10 mmol/L
Stability And Storage	Store at -20°C long term (12 months). Avoid freeze/thaw cycle.
Storage Conditions	Store at -20°C

Attribute	Value
Shipped In	Ice chest + ice pads. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent, Suitable for molecular biology

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage condition, pack size, or quality specifications change, this document would be reviewed and reissued.