

ADP Solution (1 mmol/L)

Cat. No.: A1518368 | Pack size: 10 mL | Storage: Store at -20°C

Overview

Adenosine diphosphate (ADP) is a nucleotide compound composed of one molecule of adenosine and two linked phosphate groups. It has a molecular weight of 427.2 and a CAS number of 58-64-0. In living organisms, ADP is the direct product of adenosine triphosphate (ATP) after it releases energy through hydrolysis, specifically when ATP breaks one high-energy phosphate bond and loses one phosphate group.

This product consists of ADP, Tris-HCl buffer, and deionized water, at a concentration of 1 mmol/L. It is mainly used for:

- Preparation of polynucleotides
- Determination of pyruvate kinase activity

Procedure (For Reference Only)

Operate according to the specific requirements of the experiment.

Precautions

- Avoid repeated freezing and thawing, as this may reduce the efficiency of ADP.
- 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
CAS	58-64-0
Molecular Weight	427.2
Beilstein Registry Number	67722
EC Number	200-392-5

Attribute	Value
PubChem CID	6022
Synonyms	1 mM ADP Solution Adenosine-5'-diphosphate Solution
Specifications & Purity	BioReagent, 1 mmol/L
Stability And Storage	Store at -20°C long term (12 months). Avoid freeze/thaw cycle.
Storage Conditions	Store at -20°C
Shipped In	Ice chest + ice pads. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent

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.