

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



ADP-Glucose (sodium salt)

Item No. 18139

CAS Registry No.: 102129-65-7

Formal Name: adenosine 5'-(trihydrogen

diphosphate), P'-β-D-glucopyranosyl

ester, disodium salt

Synonyms: Adenosine-5'-diphosphoglucose,

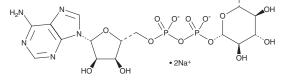
ADPG

MF: $C_{16}H_{23}N_5O_{15}P_2 \bullet 2Na$

FW: 633.3 ≥95% **Purity:** UV/Vis.: λ_{max} : 259 nm A crystalline solid Supplied as:

-20°C Storage: Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

ADPG (sodium salt) is supplied as a crystalline solid. ADPG (sodium salt) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of ADPG (sodium salt) be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of ADPG (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

ADPG is an immediate precursor used in the biosynthesis, by glucose addition, of storage polysaccharides in plants, green algae, and cyanobacteria, as well as structural polysaccharides in certain bacteria. 1,2 It is used by amylose synthases or starch synthases in plastids in the production of amylose, amylopectins, starch, and other polysaccharides. ADPG is normally generated within plastids, although it can be biosynthesized in the cytoplasm of certain grasses and imported into plastids by a membrane-bound transporter.³

References

- 1. Ball, S.G. and Morell, M.K. From bacterial glycogen to starch: Understanding the biogenesis of the plant starch granule. Annu. Rev. Plant Biol. 54, 207-233 (2003).
- 2. Sambou, T., Dinadayala, P., Stadthagen, G., et al. Capsular glucan and intracellular glycogen of Mycobacterium tuberculosis: Biosynthesis and impact on the presistence in mice. Mol. Microbiol. 70(3), 762-774 (2008).
- 3. Comparot-Moss, S. and Denyer, K. The evolution of the startch biosynthetic pathway in cereals and other grasses. J. Exp. Bot. 60(9), 2481-2492 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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