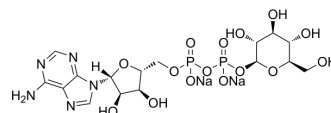


ADP-Glucose disodium

Cat. No.:	HY-136830
CAS No.:	102129-65-7
Molecular Formula:	C ₁₆ H ₂₃ N ₅ Na ₂ O ₁₅ P ₂
Molecular Weight:	633.31
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

ADP-Glucose disodium is an immediate precursor for the biosynthesis of storage polysaccharides in plants, green algae and cyanobacteria, and structural polysaccharides in some bacteria, by the addition of glucose. It is used to produce amylose, amylopectin, starch and other polysaccharides by amylose synthase or starch synthase in plastids. ADP-Glucose is usually produced in plastids, although it can be biosynthesized in the cytoplasm of some grasses and imported into plastids by membrane-bound transporters^{[1][2]}.

REFERENCES

- [1]. Ball SG, et al. From bacterial glycogen to starch: understanding the biogenesis of the plant starch granule. *Annu Rev Plant Biol.* 2003;54:207-33.
- [2]. Sambou T, et al. Capsular glucan and intracellular glycogen of *Mycobacterium tuberculosis*: biosynthesis and impact on the persistence in mice. *Mol Microbiol.* 2008 Nov;70(3):762-74.

Caution: Product has not been fully validated for medical applications. For research use only.

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