

Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic (AGPS2), Recombinant Protein

Cat *RP15838*

Size 0.05 mg (*E-Coli*)/ 0.05 mg (*Yeast*)/ 0.2 mg (*E-Coli*)/ 0.5 mg (*E-Coli*)/ 0.05 mg (*Baculovirus*)/ 0.2 mg (*Yeast*)/ 0.5 mg (*Yeast*)/

Species 0.05 mg (*Mammalian-Cell*)/ 0.1 mg (*Baculovirus*)/ 1 mg (*E-Coli*)/
0.5 mg (*Baculovirus*)/ 1 mg (*Yeast*)/ 0.1 mg (*Mammalian-Cell*)/ 1
mg (*Solanum tuberosum* (Potato))

Full Product Name

Recombinant *Solanum tuberosum* Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic (AGPS2)

Product Synonym Names

Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic; EC=2.7.7.27; ADP-glucose pyrophosphorylase; ADP-glucose synthase; AGPase S; Alpha-D-glucose-1-phosphate adenylyl transferase

Product Gene Name

AGPS2 recombinant protein

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

KAVASVILGG GVGTRLFPLT SRRAKPAVPI GGCYRLIDVP MSNCINSGIR KIFILTQFNS FSLNRHLATY
NFGNGVGFGD GFVEVLGTQ TPGDGRKMWF QAADAVREFI WVFENQKNKN VEHIILSGD HLYRMNYMDF
VQKHIDTNAD ITVSCVPMDD GRASDFGLMK IDETGAIQF AEKPKGPALK AMQVDTSILG LSEQEASNFP
YIASMGVYVF KTDVLLNLLK SAYPSCNDFG SEIIPSAVKD HNVQAYLFND YWEDIGTVKS FFDANLALTK QPPK

Sequence Positions

86-369aa. Partial

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or *Yeast* or *Baculovirus* or *Mammalian Cell*

Molecular Weight

57,400 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

P55242.1

NCBI GI

1707929

NCBI Official Full Name

Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Size 0.05 mg (E-Coli)/ 0.05 mg (Yeast)/ 0.2 mg (E-Coli)/ 0.5 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.2 mg (Yeast)/ 0.5 mg (Yeast)/

0.05 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/
0.5 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1
mg (B

UniProt Gene Name

AGPS2

UniProt Protein Name

Glucose-1-phosphate adenylyltransferase large subunit 2, chloroplastic/amyloplastic

UniProt Synonym Protein Names

ADP-glucose pyrophosphorylase; ADP-glucose synthase; AGPase S; Alpha-D-glucose-1-phosphate adenylyl transferase

UniProt Entry Name

GLGL2_SOLTU

UniProt Primary Accession

P55242

UniProt Comments

This protein plays a role in synthesis of starch. It catalyzes the synthesis of the activated glycosyl donor, ADP-glucose from Glc-1-P and ATP.

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