

Probable phosphoglucomutase, cytoplasmic 2 (At1g70730), Recombinant Protein

Cat *RP09902*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Probable phosphoglucomutase, cytoplasmic 2 (At1g70730) , partial

Product Gene Name

At1g70730 recombinant protein

Product Synonym Gene Name

At1g70730

Purity

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

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

63,482 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.

Protein Family

Probable phosphoglucomutase

NCBI Accession

NP_177230.1

NCBI GI

15223226

NCBI GenBank Nucleotide

NM_105741.4

NCBI GeneID

843410

NCBI Official Full Name

Phosphoglucomutase/phosphomannomutase family protein

NCBI Official Symbol

PGM2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Synonym Symbols

F5A18.9; F5A18_9; phosphoglucomutase 2

NCBI Protein Information

Phosphoglucomutase/phosphomannomutase family protein

NCBI Summary

Encodes a cytosolic phosphoglucomutase (PGM). Two Arabidopsis PGM proteins (AT1G70730/PGM2 and AT1G23190/PGM3) have high sequence similarities and redundant functions. Mature plants possessing a single cPGM allele had a major reduction in cPGM activity. Whereas pgm2 and pgm3 single mutants are undistinguishable from the wild type, loss of both PGM2 and PGM3 severely impairs male and female gametophyte development.

UniProt Gene Name

At1g70730

UniProt Synonym Gene Names

PGM 2

UniProt Protein Name

Probable phosphoglucomutase, cytoplasmic 2

UniProt Synonym Protein Names

Glucose phosphomutase 2

UniProt Primary Accession

Q9SGC1

UniProt Related Accession

Q9SGC1

UniProt Comments

This enzyme participates in both the breakdown and synthesis of glucose.

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