

Probable phosphoglucomutase, cytoplasmic 1 (At1g23190), Recombinant Protein

Cat *RP09605*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Probable phosphoglucomutase, cytoplasmic 1 (At1g23190) , partial

Product Gene Name

At1g23190 recombinant protein

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

63,171 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_173732.1

NCBI GI

15220668

NCBI GenBank Nucleotide

NM_102167.4

NCBI GeneID

838927

NCBI Official Full Name

Phosphoglucomutase/phosphomannomutase family protein

NCBI Official Symbol

PGM3

NCBI Official Synonym Symbols

phosphoglucomutase 3; T26J12.5; T26J12_5

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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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

At1g23190

UniProt Synonym Gene Names

PGM 1

UniProt Protein Name

Probable phosphoglucomutase, cytoplasmic 1

UniProt Synonym Protein Names

Glucose phosphomutase 1

UniProt Primary Accession

O49299

UniProt Secondary Accession

Q93Y04; Q9LR42

UniProt Related Accession

O49299

UniProt Comments

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

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