

GDP-mannose 3,5-epimerase 2 (GME-2), Recombinant Protein

Cat RP12329

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica GDP-mannose 3,5-epimerase 2 (GME-2)

Product Gene Name

GME-2 recombinant protein

Product Synonym Gene Name

GME-2

Purity

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

Sequence

MALNEEYTYV ELEKEPYWPF EKLRSITGA GGFIASHIAR RLKSEGHYII ASDWKKNEHM TEDMFCHEFH
LVDLRVMDNC LKVTGVDHV FNLAADMGGM GFIQSNHSVI MYNNTMISFN MLEAARINGV KRFFYASSAC
IYPEFKQLDT VVSLKESDAW PAEPQDAYGL EKLATEELCK HYTKDFGIEC RVGRFHNIYG PFGTWKGGRE
KAPAAFCRKA LTSTDRFEMW GDGLQTRSFT FIDECVEGVL RLTKSDFREP VNIGSDEMVS MNEMAEIVLS
FENKQLPIHH IPGPEGVRGR NSDNTLIKEK LGWAPTMLRK DGLRITYFWI KEQLEKEKAE GVDLSAYGSS
KVVQTQAPVQ LGSLRAADGK E

Sequence Positions

1-371, Full length protein

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

42,132 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

GDP-mannose 3,5-epimerase

NCBI Accession

XP_015617577.1

NCBI GI

1002308380

NCBI GenBank Nucleotide

XM_015762091.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

NCBI GeneID

4350816

NCBI Official Full Name

GDP-mannose 3,5-epimerase 2

NCBI Official Symbol

LOC4350816

NCBI Official Synonym Symbols

GME-2; OsJ_34492

NCBI Protein Information

GDP-mannose 3,5-epimerase 2

UniProt Gene Name

GME-2

UniProt Synonym Gene Names

GDP-Man 3,5-epimerase 2

UniProt Protein Name

GDP-mannose 3,5-epimerase 2

UniProt Primary Accession

Q2R1V8

UniProt Secondary Accession

Q0IRW9; Q2R1V9; Q2R1W0; A0A0P0Y3W9

UniProt Related Accession

Q2R1V8

UniProt Comments

Catalyzes a reversible epimerization of GDP-D-mannose that precedes the committed step in the biosynthesis of vitamin C (L-ascorbate), resulting in the hydrolysis of the highly energetic glycosyl-pyrophosphoryl linkage. Able to catalyze 2 distinct epimerization reactions and can release both GDP-L-galactose and GDP-L-gulose from GDP-mannose .

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