

Inositol-phosphate phosphatase (VTC4), Recombinant Protein

Cat RP02024

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 Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Inositol-phosphate phosphatase (VTC4)

Product Gene Name

VTC4 recombinant protein

Product Synonym Gene Name

VTC4

Purity

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

Sequence

MADNDSLQDQF LAAIDAACK AGQIIRKGFY ETKHVEHKGQ VDLVTETDKG CEELVFNHLK QLFPNFKFIG
EETTAAFGVT ELTDEPTWIV DPLDGTTNFV HGFPFVCVSI GLTIGKVPV VGVYNPIMEE LFTGVQKGKA
FLNGKRIKVS AQSELLTALL VTEAGTKRDK ATLD DTTNRI NSLLTKVRSL RMSGSCALDL CGVACGRVDI
FYELGFGGPW DIAAGIVIVK EAGGLIFDPS GKDL DITSQR IAASNASLKE LFAEALRLTG A

Sequence Positions

1-271, 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

29,121 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

Inositol-phosphate phosphatase

NCBI Accession

NP_186936.1

NCBI GI

15232993

NCBI GenBank Nucleotide

NM_111155.3

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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821206 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

Inositol monophosphatase family protein

NCBI Official Symbol

VTC4

NCBI Official Synonym Symbols

F13E7.19; F13E7_19

NCBI Protein Information

Inositol monophosphatase family protein

NCBI Summary

Encodes a L-galactose-1-phosphate phosphatase, involved in ascorbate biosynthesis.

UniProt Gene Name

VTC4

UniProt Synonym Gene Names

IMP

UniProt Protein Name

Inositol-phosphate phosphatase

UniProt Synonym Protein Names

L-galactose 1-phosphate phosphatase (EC:3.1.3.93)

UniProt Primary Accession

Q9M8S8

UniProt Secondary Accession

Q8LE95

UniProt Related Accession

Q9M8S8

UniProt Comments

Phosphatase acting on L-galactose 1-phosphate (L-Gal 1-P), D-myoinositol 3-phosphate (D-Ins 3-P) and D-myoinositol 1-phosphate (D-Ins 1-P). Can also use beta-glycerophosphate (glycerol 2-P) and, to a lesser extent, D-galactose 1-phosphate (D-Gal 1-P), alpha-D-glucose 1-phosphate (a-D-Glc 1-P), D-manitol 1-phosphate and adenosine 2'-monophosphate as substrates. No activity with D-fructose 1-phosphate (D-Fru 1-P), fructose 1,6-bisphosphate (Fru 1,6-bisP), D-glucose 6-phosphate (D-Glc 6-P), D-alpha-glycerophosphate (glycerol 3-P), D-sorbitol 6-phosphate and D-myoinositol 2-phosphate. The C1 phosphate position in a six-member ring substrate is important for catalysis.

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