Bifunctional phosphatase IMPL2, chloroplastic (IMPL2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05161*

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 Bifunctional phosphatase IMPL2, chloroplastic (IMPL2)

Product Gene Name
IMPL2 recombinant protein

Product Synonym Gene Name
IMPL2

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

Sequence
ASNSKRPNIS NESPSELSDT ELDRFAAVGN ALADASGEVI RKYFRKKFDI VDKDDMSPVT IADQMAEEAM VSIIFQNLPS HAIYGEEKGW RCKEESADYV WVLDPIDGTK SFITGKPVFG TLIALLYKGK PILGLIDQPI LKERWIGMNG RRTKLNGEDI STRSCPKLSQ AYLYTTSPHL FSEEAEKAYS RVRDKVKVPL YGCDCYAYAL LASGFVDLVI ESGLKPYDFL ALVPVIEGAG GTITDWTGKR FLWEASSSAV ATSFNVVAAG DSDIHQQALE SLEWH

Sequence Positions
62-346, 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
38,235 Da

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

Protein Family
Neural/ectodermal development factor

NCBI Accession
NP_001320164.1

NCBI GI
1063719913

NCBI GenBank Nucleotide

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NM_001342523.1

NCBI GeneID
830067

NCBI Official Full Name
inositol monophosphatase family protein

NCBI Official Symbol
IMPL2

NCBI Official Synonym Symbols
HISN7; HISTIDINE BIOSYNTHESIS 7; myo-inositol monophosphatase like 2; T22F8.20; T22F8_20

NCBI Protein Information
inositol monophosphatase family protein

NCBI Summary
Encodes a chloroplast-localized member of the myo-inositol monophosphatase family, IMPL2 (myo-Inositol monophosphatase like 2) that seems to have multiple enzymatic activities. It contributes to histidine biosynthesis based on it histidinol-phosphate phosphatase activity. In addition, the protein can act as an inositol monophosphatase and an L-galactose-1-phosphate phosphatase in vitro.

UniProt Gene Name
HISN7

UniProt Synonym Gene Names
IMPL2; HPP

UniProt Protein Name
Bifunctional phosphatase IMPL2, chloroplastic

UniProt Synonym Protein Names
Histidinol-phosphatase; Histidinol-phosphate phosphatase (EC:3.1.3.15

UniProt Primary Accession
Q6NPM8

UniProt Secondary Accession
Q67Y38; Q9T021; A0A1P8B6U8; F4JV95

UniProt Related Accession
Q6NPM8

UniProt Comments
Phosphatase required for histidine production. Acts also 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).

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