Molybdopterin synthase sulfur carrier subunit (VP15), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10382*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Zea mays (Maize)

Full Product Name
Recombinant Zea mays Molybdopterin synthase sulfur carrier subunit (VP15)

Product Gene Name
VP15 recombinant protein

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

Sequence
MPAAAEEQAA PAATVKVLFF ARARDLTGVA DSAVEVPPGS TAGECLARVL AQFPKLEEIR GSVVLALNEE YAADSAAVAD GDELAVIPPI SGG

Sequence Positions
1-93, 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
9,393 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.

NCBI Accession
NP_001148029.1

NCBI GI
226491211

NCBI GenBank Nucleotide
NM_001154557.1

NCBI GeneID
100281638

NCBI Official Full Name
molybdopterin synthase sulfur carrier subunit

NCBI Official Symbol

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MOCS2A

NCBI Official Synonym Symbols
VP15; GRMZM2G121468

NCBI Protein Information
molybdopterin synthase sulfur carrier subunit

UniProt Gene Name
VP15

UniProt Synonym Gene Names
MOCS2A

UniProt Protein Name
Molybdopterin synthase sulfur carrier subunit

UniProt Synonym Protein Names
Molybdenum cofactor synthesis protein 2 small subunit

UniProt Primary Accession
B6SXF8

UniProt Secondary Accession
Q2Q066

UniProt Related Accession
B6SXF8

UniProt Comments
Acts as a sulfur carrier required for molybdopterin biosynthesis. Component of the molybdopterin synthase complex that catalyzes the conversion of precursor Z into molybdopterin by mediating the incorporation of 2 sulfur atoms into precursor Z to generate a dithiolene group. In the complex, serves as sulfur donor by being thiocarboxylated (-COSH) at its C-terminus by MOCS3. After interaction with MOCS2B, the sulfur is then transferred to precursor Z to form molybdopterin.

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