Peptide methionine sulfoxide reductase B1, chloroplastic (MSRB1), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05113*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 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 Peptide methionine sulfoxide reductase B1, chloroplastic (MSRB1)

Product Gene Name
MSRB1 recombinant protein

Product Synonym Gene Name
MSRB1

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

Sequence
EAEKNEFASL SENEWKKRLT PEQYYITRQK GTERAFTGEY WNSKTPGVYN CVCCDTPLFD SSTKFDSGTG WPSYYQPIGN NVKTKLDLSI IFMPRQEVVC AVCNAHLGHV FDDGPRPTGK RYCLNSAALK LNALEKTRD

Sequence Positions
64-202, 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
21,855 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
Peptide methionine sulfoxide reductase

NCBI Accession
NP_001117484.1

NCBI GI
186490751

NCBI GenBank Nucleotide
NM_001124012.1

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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841804

NCBI Official Full Name
methionine sulfoxide reductase B 1

NCBI Official Symbol
MSRB1

NCBI Official Synonym Symbols
ATMSRB1; F22G10.17; F22G10_17; methionine sulfoxide reductase B 1

NCBI Protein Information
methionine sulfoxide reductase B 1

UniProt Gene Name
MSRB1

UniProt Synonym Gene Names
AtMSRB1

UniProt Protein Name
Peptide methionine sulfoxide reductase B1, chloroplastic

UniProt Synonym Protein Names
Peptide-methionine (R)-S-oxide reductase

UniProt Primary Accession
Q9C8M2

UniProt Secondary Accession
Q8LAR2; A6QRB3

UniProt Related Accession
Q9C8M2

UniProt Comments
Catalyzes the reduction of methionine sulfoxide (MetSO) to methionine in proteins. Specifically reduces the MetSO R-enantiomer. Plays a protective role against oxidative stress by restoring activity to proteins that have been inactivated by methionine oxidation. May play an essential function in association with MSRB2 in maintaining vegetative growth during environmental constraints, through the preservation of photosynthetic antennae. MSRB1 and MSRB2 account for most of the leaf peptide MSR capacity.

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