

Peptide methionine sulfoxide reductase B3 (MSRB3), Recombinant Protein

Cat RP05063

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

Species mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)/ 1 mg (Arabidopsis thaliana (Mouse-ear cress))

Full Product Name

Recombinant Arabidopsis thaliana Peptide methionine sulfoxide reductase B3 (MSRB3)

Product Gene Name

MSRB3 recombinant protein

Product Synonym Gene Name

MSRB3

Purity

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

Sequence

DSICLSSGVA STVAMAAPGS VQKGDEEWRA ILSPEQFRIL RQKGTEYPGT GEYVNFDKEG VYGCVGCNAP LYKSTTKFNA GCGWPAFFEG IPGAITRTTD PDGRRIEINC ATCGGHLGHV FKGEGFATPT DERHCVNSVS LKFTPAASSL

Sequence Positions

27-176, 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

18,847 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

Peptide methionine sulfoxide reductase

NCBI Accession

NP_567271.1

NCBI GI

18412703

NCBI GenBank Nucleotide

NM_116718.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenelD
825817 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

methionine sulfoxide reductase B3

NCBI Official Symbol

MSRB3

NCBI Official Synonym Symbols

ATMSRB3; methionine sulfoxide reductase B3; T4B21.6; T4B21_6

NCBI Protein Information

methionine sulfoxide reductase B3

UniProt Gene Name

MSRB3

UniProt Synonym Gene Names

AtMSRB3

UniProt Protein Name

Peptide methionine sulfoxide reductase B3

UniProt Synonym Protein Names

Peptide-methionine (R)-S-oxide reductase

UniProt Primary Accession

Q9M0Z6

UniProt Secondary Accession

Q9ZS93

UniProt Related Accession

Q9M0Z6

UniProt Comments

Catalyzes the reduction of methionine sulfoxide (MetSO) to methionine in proteins. Plays a protective role against oxidative stress by restoring activity to proteins that have been inactivated by methionine oxidation. Involved in cold tolerance. Eliminates MetSO and reactive oxygen species that accumulate at the ER during cold acclimation. MSRB family specifically reduces the MetSO R-enantiomer .

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY