

Peptide methionine sulfoxide reductase A1 (MSRA1), Recombinant Protein

Cat *RP05088*

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 A1 (MSRA1)

Product Gene Name

MSRA1 recombinant protein

Product Synonym Gene Name

MSRA1

Purity

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

Sequence

MNILNKLIGIG SSRQTNMDPS PIAQVIDDEA PAPGNQFTQF GAGCFWSVEL AYQVRPGVTQ TEVGYSQGIT
HDPSYKDVCS GTTNHAEIVR VQYDPKECSY QSLLDLFWSK HDPTTLNRQG NDVGTQYRSG IYFYNPEQEK
LARESLEHRHQ QQVDRKVVTE ILPAKKFYRA EEHHQQYLSK GGRFGLKQST EKGCDNPIRC YG

Sequence Positions

1-202, 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

22,898 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_568937.1

NCBI GI

18424492

NCBI GenBank Nucleotide

NM_125558.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID

836286

NCBI Official Full Name

peptidemethionine sulfoxide reductase 1

NCBI Official Symbol

PMSR1

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA METHIONINE SULFOXIDE REDUCTASE A1; ATMSRA1; K11J9.18; K11J9_18; peptidemethionine sulfoxide reductase 1

NCBI Protein Information

peptidemethionine sulfoxide reductase 1

NCBI Summary

ubiquitous enzyme that repairs oxidatively damaged proteins

UniProt Gene Name

MSRA1

UniProt Synonym Gene Names

PMSR1; AtMSRA1; Peptide Met(O) reductase

UniProt Protein Name

Peptide methionine sulfoxide reductase A1

UniProt Synonym Protein Names

Peptide-methionine (S)-S-oxide reductase; Peptide Met(O) reductase; Protein-methionine-S-oxide reductase

UniProt Primary Accession

Q9FKF7

UniProt Related Accession

Q9FKF7

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. MSRA family specifically reduces the MetSO S-enantiomer .

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