

Peptide methionine sulfoxide reductase A4, chloroplastic (MSRA4), Recombinant Protein

Cat RP12564

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 Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Peptide methionine sulfoxide reductase A4, chloroplastic (MSRA4)

Product Gene Name

MSRA4 recombinant protein

Product Synonym Gene Name

MSRA4

Purity

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

Sequence

ASAASAALAQ GPDEDPAAG NEFAQFGAGC FWGVELAFQR VPGVTRTEVG YSQGNLHDPT YEDVCTGATY HNEVVRVHYD VSACKFDDLL DVFWARHDPT TPNRQGNDVG TQYRSGIYYY TPEQEKAARE SLEKQQKLLN RTIVTEILPA KRFYRAEEYH QQYLAKGGRF GFRQSAEKGC NDPIRCYG

Sequence Positions

76-263, 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

22,509 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.

NCBI Accession

XP_015614143.1

NCBI GI

1002301439

NCBI GenBank Nucleotide

XM_015758657.1

NCBI GeneID

4349402

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Full Name
peptide methionine sulfoxide reductase A4, chloroplastic (Cell)

NCBI Official Symbol

LOC4349402

NCBI Official Synonym Symbols

MSRA4; OsMSRA4

NCBI Protein Information

peptide methionine sulfoxide reductase A4, chloroplastic

UniProt Gene Name

MSRA4

UniProt Synonym Gene Names

OsMSRA4; Peptide Met(O) reductase

UniProt Protein Name

Peptide methionine sulfoxide reductase A4, chloroplastic

UniProt Synonym Protein Names

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

UniProt Primary Accession

Q336R9

UniProt Secondary Accession

Q336S0; A0A0P0XX97

UniProt Related Accession

Q336R9

UniProt Comments

Catalyzes the reduction of methionine sulfoxide (MetSO) to methionine in proteins. Involved in abiotic and salt stress responses. 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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