# Peptide methionine sulfoxide reductase A2 (MRSA2), **Recombinant Protein**



RP05291 Cat

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg

(Veast)/ 0.02 ma (Raculovirus)/ 0.02 ma (Mammalian-Cell)/ 1

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

#### **Full Product Name**

Recombinant Arabidopsis thaliana Peptide methionine sulfoxide reductase A2 (MRSA2)

#### **Product Gene Name**

MRSA2 recombinant protein

# **Product Synonym Gene Name**

MRSA2

# **Purity**

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

## Sequence

MDSSLKTQEP QVVETSPSPV AQEPPQVADK PAIVPSPIAQ EPDNDVPAPG NEFAEFAAGC FWGVELAFQR IPGVTVTEVG YTHGISHNPS YEDVCTNTTN HAEVVRVQYD PKECTYETLL DLFWSRHNPT TLNRQGELLG AQYRSGIYFY TPEQEKLARE SLEKEQKKLE DKIVTEILPA KKFYKAEEYH QQYLVKGGMH GNAQSPAKSC **KDPIRCYG** 

# Sequence Positions

1-218, Full length protein

#### **Format**

Lyophilized or liquid (Format to be determined during the manufacturing process)

E Coli or Yeast or Baculovirus or Mammalian Cell

# Molecular Weight

24.434 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\_196363.1

#### NCBI GI#

15240795

#### NCBI GenBank Nucleotide #

NM\_120828.4

### FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 Tel: 1-631-637-0420

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NCBI Gene D (Baculovirus) 1 mg (Yeast) 0.1 mg (Mammalian-Cell) 1 mg (Baculovirus) 0.5 mg

830637 *Cell* 

**NCBI Official Full Name** 

peptidemethionine sulfoxide reductase 2

**NCBI Official Symbol** 

PMSR2

**NCBI Official Synonym Symbols** 

ARABIDOPSIS THALIANA METHIONINE SULFOXIDE REDUCTASE 2; ATMSRA2; peptidemethionine sulfoxide reductase 2; T2I1.170; T2I1 170

**NCBI Protein Information** 

peptidemethionine sulfoxide reductase 2

**NCBI Summary** 

ubiquitous enzyme that repairs oxidatively damaged proteins. Methionine sulfoxide reductase activity. Mutant lacking reductase activity showed increased protein oxidation, nitration and glycation of specific amino acid residues during darkness.

**UniProt Gene Name** 

MRSA2

**UniProt Synonym Gene Names** 

PMSR2; AtMSRA2; Peptide Met(O) reductase

**UniProt Protein Name** 

Peptide methionine sulfoxide reductase A2

**UniProt Synonym Protein Names** 

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

**UniProt Primary Accession #** 

Q9LY15

**UniProt Related Accession #** 

Q9LY15

**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. Prevents cellular oxidative damage in long nights. MSRA family specifically reduces the MetSO S-enantiomer.

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https://www.cd-biosciences.com/plant-protein/