Recombinant Human Methionine Sulfoxide Reductase A, His-tagged

Cat. No. MSRA-2407H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanMSRA protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	MSRA (methioninesulfoxide reductase A) belongs to the MsrA Met sulfoxide reductase family.This enzyme has an important function as a repair enzyme for proteins thathave been inactivated by oxidation. It catalyzes the reversibleoxidation-reduction of methionine sulfoxide in proteins to methionine. Inenzymology, a MSRA is an enzyme that catalyzes the chemical reaction. The 3substrates of this enzyme are peptide-L-methionine, thioredoxin disulfide,and H2O, whereas its two products are peptide-L-methionine (R)-S-oxide andthioredoxin
Form	Liquid. In 20 mMTris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl
Molecular Weight	26.2kDa (237aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	0.5mg/ml (determinedby Bradford assay)
Sequences of	MGSSHHHHHHSSGLVPRGSH MGSHMGNSAS NIVSPQEALP GRKEQTPVAA

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aminoacids	KHHVNGNRTV EPFPEGTQMA VFGMGCFWGAERKFWVLKGV YSTQVGFAGG YTSNPTYKEV CSEKTGHAEV VRVVYQPEHM SFEELLKVFW ENHDPTQGMRQGNDHGTQYR SAIYPTSAKQ MEAALSSKEN YQKVLSEHGF GPITTDIREG QTFYYAEDYH QQYLSKNPNGYCGLGGTGVS CPVGIKK
Storage	Can be stored at+4°C short term (1-2 weeks). For long term storage, aliquot and store at-20°C or -70°C. Avoid repeated freezing and thawing cycles.
Officialsymbol	MSRA

GENE INFORMATION

Gene Name	MSRA methionine sulfoxidereductase A [Homo sapiens]
Synonyms	methioninesulfoxide reductase A; EC 1.8.4.11; Peptide Met(O) reductase; cytosolicmethionine-S-sulfoxide reductase; Peptide-methionine (S)-S-oxide reductase;peptide met (O) reductase; Protein-methionine-S-oxide reductase; peptidemethionine sulfoxide reductase; PMSR; mitochondrial peptide methioninesulfoxide reductase; OTTHUMP00000115600; OTTHUMP00000224855;OTTHUMP00000224856; OTTHUMP00000224858; OTTHUMP00000229541;OTTHUMP00000230073
Gene ID	4482
mRNA Refseq	NM_001135670
Protein Refseq	NP_001129142
MIM	601250
UniProt ID	Q9UJ68

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Chromosome Location	8p23.1
Function	oxidoreductaseactivity; peptide-methionine-(S)-S-oxide reductase activity

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