Active Recombinant Human Methionine Sulfoxide Reductase A, His-tagged

Cat. No. MSRA-330H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	E.coli
Description	MSRA (Methionine sulfoxide reductase, EC1.8.4.6) is ubiquitous and highly conserved. It carries out the enzymatic reduction of methionine-S-sulfoxide (MetSO) to methionine in thioredoxin-dependent manner. Human and animal studies have shown the highest levels of expression in kidney and nervous tissue. Its proposed function is the repair of oxidative damage to proteins to restore biological activity. The two known splice variants of the mammalian protein are located in mitochondria and the cytosol, respectively. MW = 25.9 kDa.
Form	Liquid. Supplied in 0.1M Tris-HCL pH 7.4 and 30% glycerol.
Purity	> 90% by SDS-PAGE.
Activity	1 nmol of hMSRA will reduce 7 nmol peptide-bound Met-S-sulfoxide in 1 min at 37°C.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at - 80°C. Avoid freeze / thaw cycles.

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GENE INFORMATION

Gene Name	MSRA methionine sulfoxide reductase A [Homo sapiens]
Synonyms	MSRA; methionine sulfoxide reductase A; peptide met (O) reductase; cytosolic methionine-S-sulfoxide reductase; EC 1.8.4.11; PMSR; Peptide Met(O) reductase; Peptide-methionine (S)-S-oxide reductase; Protein-methionine-S-oxide reductase; methionine sulfoxide reductase A; peptide met (O) reductase
Gene ID	4482
mRNA Refseq	NM_001135670
Protein Refseq	NP_001129142
MIM	601250
UniProt ID	Q9UJ68
Chromosome Location	8p23.1
Function	oxidoreductase activity; peptide-methionine-(S)-S-oxide reductase activity

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