

Active Recombinant Human Methionine Sulfoxide Reductase B3, His-tagged

Cat. No. MSRB3-332H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	MSRB3 (Methionine-R-sulfoxide reductase, EC1.8.4.6; accession number AAH40053) is one of three different mammalian MSRB enzymes. It carries out the reduction of methionine-R-sulfoxide to methionine. Human studies have shown the highest levels of expression in smooth muscle tissues. Its proposed function is the repair of oxidative damage to proteins to restore biological activity. MW = 22.5 kDa.
Form	Liquid. Supplied in 0.1M TRIS-HCl pH 7.4 and 33% glycerol.
Purity	>90% by SDS-PAGE.
Activity assay	MetO-containing peptides are reduced by the enzyme in the presence of DTT.
Activity	1 nmol of hMSRB3 will reduce 2 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	MSRB3 methionine sulfoxide reductase B3 [Homo sapiens]
Synonyms	MSRB3; methionine sulfoxide reductase B3; FLJ36866; DKFZp686C1178; EC 1.8.4.-; Methionine-R-sulfoxide reductase B3, mitochondrial; MsrB3
Gene ID	253827
mRNA Refseq	NM_001031679
Protein Refseq	NP_001026849
MIM	14785
UniProt ID	Q8IXL7
Chromosome Location	12q14.3
Function	metal ion binding; oxidoreductase activity; peptide-methionine-(S)-S-oxide reductase activity; protein-methionine-R-oxide reductase activity IDA PubMed zinc ion binding

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