

Recombinant Human MSRB3, His-tagged

Cat. No. MSRB3-966H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MSRB3 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Methionine sulfoxide reductase B3, also known as MSRB3, belongs to the methionine sulfoxide reductases (MSR) family proteins. MSRs are thought to protect against reactive oxygen species-induced oxidative damage in many organs, including the most environmentally exposed organ, human skin. MSRB3 plays an important role in cold tolerance by eliminating MetO and ROS that accumulate at the ER during cold acclimation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1mM PMSF.
Molecular Weight	19 kDa (174aa) confirmed by MALDI-TOF.
Purity	> 90% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MCGLPSGSCR DKKNCKVVFS QQELRKRLTP LQYHVTQKEG TESAFEGEYT HHK DPGIYKC VVCGTPLFKS ETKFDSGSGW PSFHDVINSEAITFTDDFSY GMH RVE

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TSCS QCGAHLGHIF DDGPRPTGKR YCINSAALSF TPADSSGTAE GGSGV
ASPAQ ADKAELLEHH HHHH.

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.

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; zinc ion binding

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