

# Recombinant Human MSRB3, His-tagged

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

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human MSRB3 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                          |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>              | 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. |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1mM PMSF.                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>         | 19 kDa (174aa) confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                   | > 90% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sequences Of Amino Acids</b> | 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 active- ty; zinc ion binding

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