

# Recombinant human MSRB3 protein

Catalog Number: ATGP0951

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-185aa

### UniProt No.

Q8IXL7

### NCBI Accession No.

NP\_001026849

### Alternative Names

Methionine sulfoxide reductase B3

## PRODUCT SPECIFICATION

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### Molecular Weight

19 kDa (174aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1mM PMSF

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human MSRB3 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MCGLPSGSCR DKKNCKVVFS QQELRKRLTP LQYHVTQKEG TESAFEGEYT HHKDPGIYKC VCGTPLFKS ETKFDMSGGW  
PSFHDVINSE AITFTDDFSY GMHRVETSCS QCGAHLGHIF DDGPRPTGKR YCINSAALSF TPADSSGTAE GGSGVASPAQ  
ADKAELLEHH HHHH

### General References

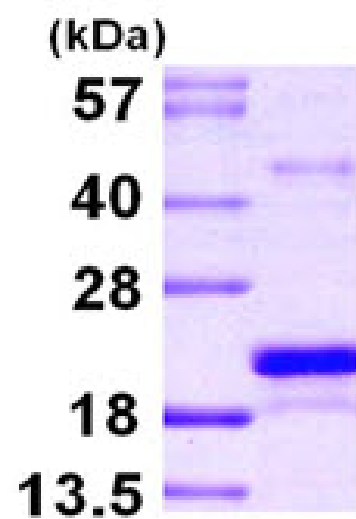
Taunqiaruwina WM., et al. (2009) Am J Dermatopathol. 31(5):427-31-7.

Kwon SJ., et al. (2007) Plant Cell Physiol. 48(12):1713-23.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)