

# Recombinant e.coli msrB protein

Catalog Number: ATGP1026

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-137aa

### UniProt No.

P0A746

### NCBI Accession No.

NP\_416292

### Alternative Names

Methionine sulfoxide reductase B, ECK1776, JW1767, yeaA

## PRODUCT SPECIFICATION

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### Molecular Weight

17.6 kDa (157aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 95% 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

MsrB, also known as, methionine sulfoxide reductase B from Escherichia coli, belongs to the msrB Met sulfoxide reductase family. E. coli msrB carries out the reduction of methionine-R-sulfoxide to methionine. This protein possess a metal binding site composed of two CXXC motifs. The bound metal (zinc or iron) may stabilize the conformation of the enzymes. Recombinant E. coli msrB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MANKPSAEEL KKNLSEMQFY VTQNHGTEPP FTGRLLHNKR DGVYHCLICD APLFHSQTKY  
DSGCGWPSFY EPVSEESIRY IKDLSHGMQR IEIRCGNCDA HLGHVFPDGP QPTGERYCVN SASLRFTDGE NGEIING

### General References

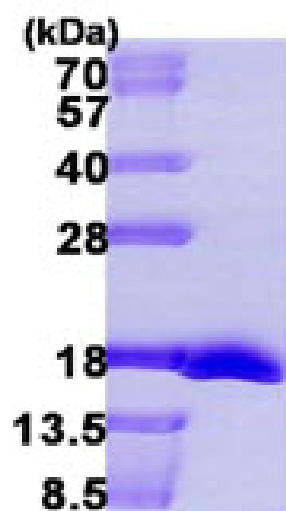
Zheung D. et al. (2003) J. Biomol. NMR. 27:183-184

Weissbach H. et al. (2002) Arch.Biochem.Biophys. 397: 172-178

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)