

Recombinant E.coli MsrA, His-tagged

Cat. No. msrA-988E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli msrA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-174 aa).
Species	E.coli
Source	E.coli
Description	Peptide methionine sulfoxide reductase A, also known msrA, is an enzyme that catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine. This protein could have an important function as a repair enzyme for proteins that have been inactivated by oxidation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
Molecular Mass	25.4 kDa (232aa), confirmed by MALDI-TOF
Purity	> 90 % by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSFLDKKHLV SPADALPGRN TPMPVATLHA VNGHSMTNVP DGMEIAIFAM GCFWGVVERLF WQLPGVYSTA AGYTGGYTPN PTYREVCSGD TGHAEA VRIV YDPSVISYEQ LLQVFWENHD PAQGMRRQGND HGTQYRSAIY PLTPEQDAAA RASLERFQAA MLAADDDRHI TTEIANATPF

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YYAEDDHQQY LHKNPYGYCG IGGIGVCLPP EA

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

[msrA methionine sulfoxide reductase A \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Synonyms

msrA; ECK4215; JW4178; pms; pmsR; EG11433; MSRA; methionine sulfoxide reductase A; peptide met (O) reductase; cytosolic methionine-S-sulfoxide reductase; EC 1.8.4.11; PMSR; Peptide Met(O) reductase; Peptide-methionine (S)-S-oxide reductase; Protein-methionine-S-oxide reductase; methionine sulfoxide reductase A; peptide met (O) reductase

Gene ID

[948734](#)

Protein Refseq

[NP_418640](#)

UniProt ID

[P0A744](#)

Function

N-terminus verified by Edman degradation on mature peptide; MsrA and MsrB are required to repair Ffh oxidized by reactive oxygen species produced by aerobic metabolism, establishing an as-yet undescribed link between protein targeting and oxidation

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