

Recombinant e.coli msrA protein

Catalog Number: ATGP1036

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-212aa

UniProt No.

P0A744

NCBI Accession No.

NP_418640

Alternative Names

Peptide methionine sulfoxide reductase A, ECK4215, JW4178, pms, pmsR, peptide-methionine (S)-S-oxide reductase

PRODUCT SPECIFICATION

Molecular Weight

25.4 kDa (232aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

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

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. Recombinant E. coli msrA 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

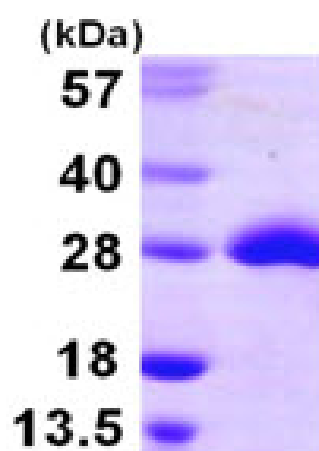
MGSSHHHHHH SSGLVPRGSH MSLFDKKHLV SPADALPGRN TPMPVATLHA VNGHSMTNVP DGMEIAIFAM GCFWGVVERLF
WQLPGVYSTA AGYTGGYTPN PTYREVCSGD TGHAEAVRIV YDPSVISYEQ LLQVFWENHD PAQGMRQGND HGTQYRSAIY
PLTPEQDAAA RASLERFQAA MLAADDDRHI TTEIANATPF YYAEDDHQY LHKNPYGYCG IGGIGVCLPP EA

General References

Kuschel L., et al. (1999) FEBS Letts.1:17-21.
Gabbita S., et al. (1999) J Neurochem. 4:1660-1666.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)