

Recombinant human MSRA protein

Catalog Number: ATGP1569

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-235aa

UniProt No.

Q9UJ68

NCBI Accession No.

NP_036463

Alternative Names

methionine sulfoxide reductase A, bA235O14.2, NRK1, RP11-235O14.2

PRODUCT SPECIFICATION

Molecular Weight

26.2 kDa (237aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM 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

MSRA (methionine sulfoxide reductase A) belongs to the MsrA Met sulfoxide reductase family. This enzyme has an important function as a repair enzyme for proteins that have been inactivated by oxidation. It catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine. In enzymology, a MSRA is an enzyme that catalyzes the chemical reaction. The 3 substrates of this enzyme are peptide-L-methionine, thioredoxin disulfide, and H₂O, whereas its two products are peptide-L-methionine (R) -S-oxide and thioredoxin. Recombinant human MSRA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSHEMNSAS NIVSPQEALP GRKEQTPVAA KHHVNGNRTV EPFPEGTQMA
VFGMGCFWGA ERKFWVLKGV YSTQVGFAGG YTSNPTYKEV CSEKTGHAEV VRVVYQPEHM SFEELLKVF
ENHDPTQGM R QGNDHGTQYR SAIYPTSAKQ MEAALSSKEN YQKVLSEHGF GPITTDIREG QTFYYAEDYH QQYLSKNPNG
YCGLGGTGVS CPVGIKK

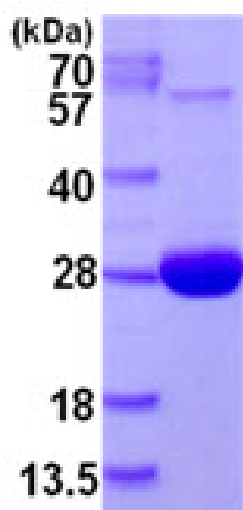
General References

Boschi-Muller S, et al. (2005) *Biochim. Biophys. Acta.* 1703 (2): 231-8.

Hansel A., et al. (2005) *Biochim. Biophys. Acta* 1703:239-247.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)