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AR50393PU-S Human Methionine Sulfoxide Reductase A / MSRA (24-235, His-tag) - Purified

Alternate names: Peptide-methionine (S)-S-oxide reductase, Protein-methionine-S-oxide reductase

Quantity: 0.1 mg

Concentration: 0.5mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: Q9UJ68

NCBI: NP_036463

GeneID: 4482

Species: Human

Source: E. coli

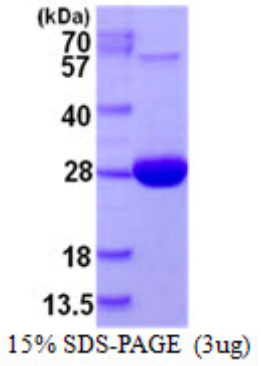
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl

Description: Recombinant human MSRA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSHMGNSAS NIVSPQEALP GRKEQTPVAA KHHVNGNRTV
EPFPEGTQMA VFGMGCFWGA ERKFWVLKGV YSTQVGFAGG YTSNPTYKEV CSEKTGHAEV
VRVVYQPEHM SFEELLKVFW ENHDPTQGMR QGNDHGTQYR SAIYPTSAKQ MEAALSSKEN
YQKVLSEHGF GPITTDIREG QTFYYAEDYH QQYLSKNPNG YCGLGGTGVS CPVGIKK
Molecular weight: 26.2 kDa (237aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Boschi-Muller S, et al. (2005) Biochim. Biophys. Acta. 1703 (2): 231-8. Hansel A., et al. (2005) Biochim. Biophys. Acta 1703:239-247.

Pictures:



15% SDS-PAGE (3ug)