

## 32-2566: MSRA Recombinant Protein

**Alternative Name** Mitochondrial peptide methionine sulfoxide reductase, Peptide-methionine (S)-S-oxide reductase, Peptide Met(O) reductase, Protein-methionine-S-oxide reductase, PMSR, MSRA.

### Description

Source : Escherichia Coli. MSRA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 237 amino acids (24-235) and having a molecular mass of 26.2kDa. The MSRA is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. Methionine sulfoxide reductase A (MSRA) is a member of the MsrA Met sulfoxide reductase family. The MSRA enzyme has a vital function as a repair enzyme for proteins which have been inactivated by oxidation. MSRA catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine. The three substrates of the MSRA enzyme are peptide-L-methionine, thioredoxin disulfide, and H<sub>2</sub>O, while its 2 products are peptide-L-methionine (R)-S-oxide and thioredoxin. The MSRA protein is ubiquitous and extremely conserved. Human and animal studies have shown the ultimate levels of expression in kidney and nervous tissue.

### Product Info

**Amount :** 20 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** MSRA protein solution (0.5mg/ml) is supplied in 20mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT and 50mM NaCl.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSHMGNSAS NIVSPQEALP GRKEQTPVAA KHHVNGNRTV  
EPFPEGTQMA VFGMGCFWGA ERKFWVLKGV YSTQVGFAGG YTSNPTYKEV CSEKTGHAEV  
VRVVYQPEHM SFEELLKVFV ENHDPTQGM R QGNDHGTQYR SAIYPTSAKQ MEAALSSKEN  
YQKVLSEHGF GPITTDIREG QTFYYAEDYH QQYLSKNPNG YCGLGGTGVS CPVGIKK.

