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**Product Data Sheet**


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Product Name: MSRA E.Coli  
 Cat. No.: GP21955  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptide methionine sulfoxide reductase MsrA; Protein-methionine-S-oxide reductase; Peptide-methionine (S)-S-oxide reductase; Peptide Met(O) reductase; msrA; pms; b4219; JW4178.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSLFDKKHLV SPADALPGRN TPMPVATLHA VNGHSMTNVP DGMEIAIFAM GCFWGVVERLF WQLPGVYSTA AGYTGGYTPN PTYREVCSGD TGHAEA VRIV YDPSVISYEQ LLQVFWENHD PAQGMRQGND HGTQYRSAIY PLTPEQDAAA RASLERFQAA MLAADDDRHI TTEIANATPF YYAEDDHQQY LHKNPYGYCG IGGIGVCLPP EA.		
Formulation	MSRA protein solution (0.5mg/ml) 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.		

**Introduction**

Peptide methionine sulfoxide reductase A (msrA) is an enzyme which catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine. MSRA may have a significant function as a repair enzyme for proteins which have been inactivated by oxidation.

**Stability**

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.

**Background**

MSRA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 232 amino acids (1-212 a.a.) and having a molecular mass of 25.4kDa. MSRA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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