

**Methionine Sulfoxide Reductase B E.Coli Recombinant
ENZYME**

Catalog Number: PRP-124ENZ
Quantity: 5 micrograms, 20 micrograms, 1 milligram
Format: 20mM Tris HCl pH-8.0, 20% glycerol, 0.1M NaCl, 1mM DTT. Sterile-filtered colorless solution.
Host: *E. coli*

Background: Methionine sulfoxide reductase B (MsrB) from *Escherichia coli* is a member of the MsrB Met sulfoxide reductase family. The *E.coli* MsrB carries out the reduction of methionine-R-sulfoxide to methionine. MsrB possess a metal binding site composed of 2 CXXC motifs. The bound metal (zinc or iron) may stabilize the conformation of the enzymes.

Specificity & Preparation: MsrB produced in *E. coli* is a single, non-glycosylated chain containing 157 amino acids (1-137aa) and having a molecular mass of 17.6 kDa. MsrB is fused to a 20 amino acid His-tag at the N-terminus and purified by proprietary chromatographic techniques. Purity greater than 95.0% as determined by SDS-PAGE. MsrB is provided at 1 mg/ml in 20mM Tris HCl pH-8.0, 20% glycerol, 0.1M NaCl, 1mM DTT.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MANKPSAEEL KKNLSEMQFY VTQNHGTEPP
FTGRLLHNKR DGVYHCLICD APLFHSQTKY DSGCGWPSFY EPVSEESIRY IKDL SHGMQR
IEIRCGNCDA HLGHVFPDGP QPTGERYCVN SASLRFTDGE NGEEING.

Storage: Store vial 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 repeated freezing and thawing.

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