

# E.Coli SODA Recombinant Protein



RPPB4777

## Product Information Protein Information

### Product SKU:

RPPB4777

### Accession:

P00448

### Host:

Escherichia Coli.

### Protein description:

SODA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 226 amino acids (1-206 a.a.) and having a molecular mass of 25.2kDa. SODA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Appearance:

Sterile filtered colorless solution.

### Synonyms:

Superoxide dismutase [Mn], MnSOD, soda, b3908, JW3879.

### Formulation:

SODA E.coli solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.

### Purity:

Greater than 95% as determined by SDS-PAGE.

### 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.

### Amino Acid Sequence:

MGSSHHHHHH SGLVPRGSH MSYTLPSLPY AYDALEPHFD KQTMEIHHTK HHQTYVNNAN AALESLEPEFA  
NLPVEELITK LDQLPADKKT VLRNNAGGHA NHSLFWKGLK KGTTLQGDLEK AAIEDDFGSV DNFKAEFKA  
AASRFSGGWA WLVLKGDKLA VVSTANQDSP LMGEAISGAS GFPIMGLDVW EHAYYLKFQN RRPDIKEFW  
NVVNWDEAAA RFAAKK.

### Biological Activity:

Specific activity is > 350 units/mg, in which one unit will inhibit the rate of reduction of cytochrome c by 50% in a coupled system, using xanthine and xanthine oxidase at pH 7.8 at 25°C in a 1.5 ml reaction volume.