

Superoxide Dismutase E.Coli Recombinant

Item Number	rAP-4864
Synonyms	Superoxide dismutase [Mn], MnSOD, soda, b3908, JW3879.
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.
Uniprot Accesion Number	P00448
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSYTLPSLPY AYDALEPHFD KQTMEIHHTK HHQTYVNNAN AALES-LPEFA NLPVEELITK LDQLPADKKT VLRNNAGGHA NHSLFWKGLK KGTTLQGDLK AAIERDFGSV DNFKAEFEKA AASRFGSGWA WLVLKGDKLA VVSTANQDSP LMGEAISGAS GFPIMGLDVW EHAYYLFQNR RRPDYIKEFW NVVNWDEAAA RFAAKK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	SODA E.coli solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	
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 25C in a 1.5 ml reaction volume.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**