# Recombinant E.coli SodA, His-tagged

**Cat. No.** sodA-985E **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant E.colisodA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-206aa). |
| **Species** | E.coli |
| **Source** | E.coli |
| **Description** | Superoxide dismutase, Mn, also known as sodA, is a member of the iron/manganese superoxide dismutase family. SodA destroys radicals which are normally produced within the cells and which are toxic to biological systems. It works by catalyzing the dismutation of the superoxide radical O2- to O2 and H2O2, which are then metabolized to H2O and O2 by catalase and glutathione peroxidase. |
| **Form** | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol, 0.1M NaCl |
| **Molecular Weight** | 25.2 kDa (226aa) confirmed by MALDI-TOF |
| **Purity** | > 95% by SDS - PAGE |
| **Concentration** | 1 mg/ml (determined by Bradford assay ) |
| **Sequences of amino acids** | MGSSHHHHHH SSGLVPRGSH MSYTLPSLPY AYDALEPHFD KQTMEIHHTK HHQTYVNNAN AALESLPEFA NLPVEELITK LDQLPADKKTVLRNNAGGHA NHSLFWKGLK KGTTLQGDLK AAIERDFGSV DNFKAEFEKA AASRFGSGWA |

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| | WLVLKGDKLA VVSTANQDSP LMGEAISGASGFPIMGLDVW EHAYYLKFQN RRPDYIKEFW NVVNWDEAAA RFAAKK |
| **Storage** | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

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| **Gene Name** | sodA superoxide dismutase, Mn [ Escherichia coli str. K-12 substr. MG1655 ] |
| **Synonyms** | sodA; ECK3901; JW3879; superoxide dismutase, Mn; NP_418344.3; EC 1.15.1.1; superoxide dismutase, manganese |
| **Gene ID** | 948403 |
| **Protein Refseq** | NP_418344 |

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