

Bacterial Recombinant SOD-A

CATALOG #: 6361-100 100 µg

ALTERNATE NAMES: Superoxide dismutase, manganese, MnSOD.

SOURCE: E.Coli

PURITY: > 95% by SDS - PAGE

MOL. WEIGHT: 25.2 kDa (226 aa, 1-206 aa + His Tag)

FORMULATION: 1 mg/ml solution in 20 mM Tris-HCl (pH 8.0) containing 1 mM DTT, 0.1 M NaCl and 10% glycerol.

STORAGE CONDITIONS:

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.

DESCRIPTION:

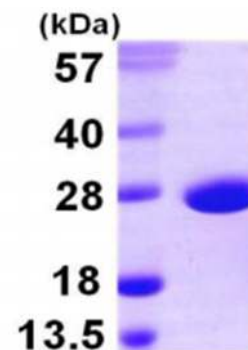
Superoxide dismutase, Mn, also known as sodA, is a member of the iron/manganese superoxide dismutase family. SodA destroys radicals which are normally produced within the cells and which are toxic to biological systems. It works by catalyzing the dismutation of the superoxide radical O²⁻ to O₂ and H₂O₂, which are then metabolized to H₂O and O₂ by catalase and glutathione peroxidase.

AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MSYTLPSLPY AYDALEPHFD KQTMEIHHTK
 HHQTYVNNAN AALESLEPEFA NLPVEELITK LDQLPADKKT VLRNNAGGHA NHSLFWKGLK
 KGTTLQGDLK AAIERDFGSV DNFKAEFEKA AASRFGSGWA WLVLKGDKLA
 VVSTANQDSP LMGEAISGAS GFPIMGLDVW EHAYYLKFQN RRPDYIKEFW
 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.



15% SDS-PAGE (3µg)

Bacterial Recombinant SOD-A

RELATED PRODUCTS:

- Superoxide Dismutase (SOD) Activity Assay Kit (Cat. No. K335-100)
- Superoxide Dismutase, human recombinant (Cat. No. 4802-50)
- Human Recombinant SOD2 (Cat. No. 6360-100)
- SOD1 Antibody (Cat. No. 3458-100)
- SOD1 Blocking Peptide (Cat. No. 3458BP-50)
- EUK-118 (Cat. No. 2173-5, -25)
- EUK-124 (Cat. No. 2174-5, -25)
- EUK-134 (Cat. No. 2175-5, -25)
- MnTMPyP Pentachloride (Cat. No. 2056-10, -50)
- MnTBAP Chloride (Cat. No. 2058-10, -50)

FOR RESEARCH USE ONLY! Not to be used in humans.

