

sodA, 1-206aa, E.coli, His tag, E.coli

Cat.NO.: TP03245

3th Edition

Synonyms:Superoxide dismutase, manganese, MnSOD

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. Recombinant E.coli sodA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMSYTLPSLPYAYDALEPHFDKQTMEIHHTKHHQTYVNNANAALESLPEFANLPVE
ELITKLDQLPADKKTVLRNNAAGGHANHSLFWKGLKKGTTLQGD LKAAIERDFGSVDNFKAEFEKAAASRFGSGWA
WLVKGDKLAVVSTANQDSPLMGEAISGASGFPIMGLDVWEHAYYLKQNRDPDYIKEFWNVVNWDEAAARFAAK
K

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.