

**SOD1, 1-154aa, Human, Recombinant, E.coli**

**Cat.NO.: TP04001**

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3th Edition

**Synonyms:**ALS, SOD, ALS1, IPOA, Cu-Zn superoxide dismutase, Superoxide dismutase 1 soluble, SOD1, Superoxide dismutase 1, soluble ALS 1, Amyotrophic lateral sclerosis 1 Amyotrophic lateral sclerosis 1 adult, Cu/Zn SOD, Cu/Zn superoxide dismutase

**Description:**Superoxide dismutase 1(SOD1) binds copper and zinc ions and is one of three isozymes responsible for destroying free superoxide radicals in the body. The encoded protein neutralizes supercharged oxygen molecules, which can damage cells if their levels are not controlled. Mutations in SOD1 cause a form of familial amyotrophic lateral sclerosis (ALS). Recombinant SOD1 was expressed in E.coli and purified by conventional chromatography techniques.

**Form:**Liquid in 20 mM Tris pH 7.5, 10% Glycerol.

**Molecular Weight:**15.9 kDa (154 aa), confirmed by MALDI-TOF.

**Sequences:**

MATKAVCVLKGDGPVQGIINFEQKESNGPVKVVWGSIKGLTEGLHGFHVHEFGDNTAGCTSAGPHFNPLSRKHGGP  
KDEERHVGDLGNVTADKDGVDVSIEDSVISLSGDHCCIIGRTLTVVHEKADDLGKGGNEESTKTGNAGSRLACGVIGI  
AQ

**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.