Recombinant Human Superoxide Dismutase 1

Cat. No. SOD1-200H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human superoxide dismutase 1 was expressed in*E.coli*and purified by conventional chromatography techniques. MW=15.9kDa (154 aa).
Species	Human
Source	E.coli
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).
Amino Acids Sequences	MATKAVCVLK GDGPVQGIIN FEQKESNGPV KVWGSIKGLT EGLHGFHVHE FGDNTAGCTS AGPHFNPLSR KHGGPKDEER HVGDLGNVTA DKDGVADVSI EDSVISLSGD HCIIGRTLVV HEKADDLGKG GNEESTKTGN AGSRLACGVI GIAQ
Purity	> 95% by SDS-PAGE.
Concentration	1mg/ml (determined by Bradford assay).
Form	Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 10% glycerol.
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.

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GENE INFORMATION

Gene Name	SOD1 superoxide dismutase 1, soluble [Bos taurus]
Synonyms	SOD1; SOD1L1; superoxide dismutase 1, soluble; superoxide dismutase 1, soluble; superoxide dismutase 1, soluble; Cu-Zn superoxide dismutase; superoxide dismutase 1, soluble-like; ALS; ALS1; EC 1.15.1.1;IPOA;Cu,Zn superoxide dismutase, EC 1.15.1.1; Cu/Zn superoxide dismutase; SOD, soluble; amyotrophic lateral sclerosis 1 (adult); indophenoloxidase A; superoxide dismutase (aa 120-154); superoxide dismutase 1, soluble; superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult)); superoxide dismutase, cystolic
Gene ID	281495
mRNA Refseq	NM_174615
Protein Refseq	NP_777040
MIM	P00442
UniProt ID	P00441
Chromosome Location	1q12-q14
Pathway	Amyotrophic lateral sclerosis (ALS); Neurodegenerative Disorders
Function	antioxidant activity; chaperone binding; copper ion binding; metal ion binding; oxidoreductase activity; protein phosphatase 2B binding; superoxide dismutase activity; zinc ion binding.

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