# Recombinant Human Superoxide Dismutase 1

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

## SPECIFICATION

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| **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. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

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| **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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