

Active Recombinant Human SOD1, low endotoxin

Cat. No. SOD1-103H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Recombinant Human SOD1 was expressed in E.coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 154 AA |
| Description | Human Cu/Zn Superoxide Dismutase (SOD) catalyzes the reaction between superoxide anions and hydrogen to yield molecular oxygen and hydrogen peroxide. The enzyme protects the cell against dangerous levels of superoxide. |
| Form | Lyophilized powder |
| Bio-activity | >6,000 U/mg |
| Molecular Mass | 17 kDa |
| Endotoxin | Less than 1 EU/mg of rHuSOD. |
| Purity | >95% by SDS-PAGE and HPLC analyses. |
| Storage | Can be stored at 4°C for two years. Should not be stored at >10°C for more than one week. |

 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

| | |
|----------------------------|---|
| Gene Name | SOD1 superoxide dismutase 1, soluble [Homo sapiens] |
| Official Symbol | SOD1 |
| Synonyms | SOD1; superoxide dismutase 1, soluble; ALS, ALS1, amyotrophic lateral sclerosis 1 (adult); superoxide dismutase [Cu-Zn]; IPOA; SOD, soluble; indophenoxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cystolic; ALS; SOD; ALS1; hSod1; homodimer; |
| Gene ID | 6647 |
| mRNA Refseq | NM_000454 |
| Protein Refseq | NP_000445 |
| MIM | 147450 |
| UniProt ID | P00441 |
| Chromosome Location | 21q22.11 |
| Pathway | Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; FOXA1 transcription factor network, organism-specific biosystem; Folate Metabolism, organism-specific biosystem; Hemostasis, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; |
| Function | chaperone binding; copper ion binding; metal ion binding; oxidoreductase activity; |

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



protein binding; protein homodimerization activity; protein phosphatase 2B binding;
superoxide dismutase activity; zinc ion binding;

 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