

Active Recombinant Human SOD1 protein, His-tagged

Cat. No. SOD1-1161H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Recombinant Human SOD1 protein(Ala 2 - Gln 154), fused with His tag, was expressed in E.coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Ala 2 - Gln 154 |
| Form | Lyophilized from 0.22 μ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant. |
| Bio-activity | Measured by its ability to catalyzes the dismutation of the superoxide anion into hydrogen peroxide and molecular oxygen. One Unit is defined as the amount of SOD that inhibits the xanthine oxidase activity by 50% (IC50 (g)) under the assay conditions. The specific activity is >1000 U. |
| Molecular Mass | This protein carries a polyhistidine tag at the N-terminusThe protein has a calculated MW of 16.8 kDa. The protein migrates as 19-21 kDa under reducing (R) condition (SDS-PAGE). |
| Endotoxin | Less than 1.0 EU per μ g by the LAL method. |
| Purity | >97% as determined by SDS-PAGE. |

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Storage For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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](#)

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