

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 µm 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 µg 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; indophenoloxidase 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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