

# Human SOD Recombinant Protein



RPPB4771

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## Product Information    Protein Information

**Product SKU:**

RPPB4771

**Accession:**

P00441

**Host:**

Escherichia Coli.

**Protein description:**

Recombinant Human Cu/Zn Superoxide Dismutase produced in E.Coli is a non-glycosylated homodimeric polypeptide chain containing 2 x 153 amino acids and having a total molecular mass of 31.6kDa.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Superoxide dismutase [Cu-Zn], EC 1.15.1.1, SOD1, SOD, ALS, ALS1, IPOA.

**Formulation:**

Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

**Purity:**

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized SOD in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized SOD although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SOD should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

ATKAVCVLKG DGPVQGIINF EQKESNGPVK VWGSIKGLTE GLHGFHVHEF GDNTAGCTSA GPHFNPLSRK  
HGGPKDEERH VGD LGNVTAD KDG VADVSIE DSVISLSGDH CIIGRTLTVH EKADDLGKGG NEESTKTGNA  
GSRLACGVIG IAQ.

**Biological Activity:**

The potency per mg was tested by Pyrogalllic Acid method and was found to be more than 10,000 Units/mg.