

## SOD Human His

**Description:** SOD Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 189 amino acids with a 10

**Catalog #:** PRPS-1246

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

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** MGHSHHHHHH HHSSGHIEGR HMTYARAAAR QARALEATKA  
VCVLKGDGPV QGIINFEQKE SNGPVKVGWS IKGLTEGLHG FHVHEFGDNT AGCTSAGPHF  
NPLSRKHGGP KDEERHVGDL GNVTADKDG V ADVSIEDSVI SLSGDHCIG RTLVVHEKAD  
DLGKGGNEES TKTGNAGSRL ACGVIGIAQ

**Purity:** Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.

**Formulation:**

Lyophilized from a 0.2um filtered concentrated solution in PBS, pH 7.4.

**Stability:**

Lyophilized SOD Human although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SOD Human should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized SOD in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

Human Cu/Zn Superoxide Dismutase (SOD1) 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. SOD1 binds copper and zinc ions and is 1 of 3 isozymes accountable 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.

**Biological Activity:**

Fully biologically active when compared to standard. The specific activity was tested by Pyrogalllic Acid method and was found to be more than 10,000Units/mg.

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