
Product Data Sheet

Product Name: SOD Human His

Cat. No.: GP24656

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical
Appearance

solid

Shipping
Condition Shipped at Room temp.

Synonyms

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

Amino Acid
Sequence

MGHHHHHHHH HHSSGHIEGR HMTYARAAAR QARALEATKA VCVLKGDPV
 QGIINFEQKE SNGPVKVGWS IKGLTEGLHG FHVHEFGDNT AGCTSAGPHF
 NPLSRKHGGP KDEERHVGDL GNVTADKDGV ADVSIEDSVI SLSGDHCIIG
 RTLVVHEKAD DLGKGGNEES TKTGNAGSRL ACGVIGIAQ

Solubility

It is recommended to reconstitute the lyophilized SOD in sterile 18M Ω -cm
 H₂O not less than 100 μ g/ml, which can then be further diluted to other
 aqueous solutions.

Formulation

Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.**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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

SOD Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 189 amino acids with a 10 × His at N-terminus and having a molecular mass of 40.0kDa. The SOD Human is purified by proprietary chromatographic techniques.

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