
Product Data Sheet

Product Name: SOD Human, 15N

Cat. No.: GP26341

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition atRoomtemp.

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

Amino Acid Sequence
 ATKAVCVLKGDGPVQGIINFEQKESNGPVKVVWGSIKGLTEGLHGFHVHEFGD
 NTAGCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGVADVSIEDSV
 ISLSGDHCIIGRTLTVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ.Solubility It is recommended to reconstitute the lyophilized SOD in sterile 18M μ -cm
 H₂O not less than 100g/ml, which can then be further diluted to other
 aqueous solutions.Formulation Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in PBS,
 0.1mM CuCl₂ and 0.2mM ZnCl₂.**Introduction**

Human Cu/Zn Superoxide Dismutase (SOD) catalyzes the reaction between superoxide anions and hydrogen to yield molecular oxygen and hydrogen peroxide. SOD protects the cell against dangerous levels of superoxide. SOD 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.

Stability

Lyophilized SOD although stable at room temperature for 3 weeks, should be stored desiccated below -186yC. Upon reconstitution SOD should be stored at 46yC between 2-7 days and for future use below -186yC. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

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

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Recombinant Human Superoxide Dismutase, 15N produced in E.Coli is a single non-glycosylated polypeptide chain containing 153 amino acids and having a total molecular mass of 15.8kDa.

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