

32-13444: SOD Human, 15N

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

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

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.

Product Info

Amount : 100 µg / 250 µg

Purification : Greater than 95.0% as determined by SDS-PAGE Analysis.

Content : Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, 0.1mM CuCl₂ and 0.2mM ZnCl₂.

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

Storage condition : 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 : ATKAVCVLKGDGPVQGIINFEQKESNGPVKVGSIKGLTEGLHGFHVHEFGD
NTAGCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGVDVSIEDSV
ISLSGDHCHIGRTLTVVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ.