9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SOD Human

Superoxide Dismutase Human Recombinant
RCP2186

Product Overview

Name	SOD Human
Description	
Superoxide Dismutase Human Recombinant	
Accession (Primary)	P00441
Synonyms	
Superoxide dismutase [Cu-Zn], EC 1.15.1.1, SOD1, SOD, ALS, ALS1, IPOA.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
ATKAVCVLKG DGPVQGIINF EQKESNGPVK VWGSIKGLTE GLHGFHVHEF GDNTAGCTSA GPHFNPLSRK HGGPKDEERH VGDLGNVTAD KDGVADVSIE DSVISLSGDH CIIGRTLVVH EKADDLGKGG NEESTKTGNA GSRLACGVIG IAQ.	

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Biological Activity

The potency per mg was tested by Pyrogallic Acid method and was found to be more than 3,000 Units/mg.

Solubility

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

Precautions

SOD Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P00441)