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

SOD Human His

Superoxide Dismutase Human Recombinant His Tag
RCP2187

Product Overview

Name	SOD Human His
Description	
Superoxide Dismutase Human Recombinant His Tag	
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 0.2um 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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE and HPLC analyses.	
Amino acid sequence	
MGHHHHHHHH HHSSGHIEGR HMTYARAAAR QARALEATKA VCVLKGDGPV QGIINFEQKE SNGPVKVWGS IKGLTEGLHG FHVHEFGDNT AGCTSAGPHF NPLSRKHGGP KDEERHVGDL GNVTADKDGV ADVSIEDSVI SLSGDHCIIG RTLVVHEKAD DLGKGGNEES TKTGNAGSRL ACGVIGIAQ	

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Biological Activity

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

Solubility

It is recommended to reconstitute the lyophilized SOD in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (P00441)