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## SOD2 Recombinant Human Superoxide Dismutase-2 His

Catalog No.	CS460A CS460B CS460C	Quantity:	5 μg 25 μg 1 mg
Alternate Names:	Superoxide dismutase 2 mitochondrial, MNSOD, MVCD6, IPOB		
Description:	Superoxide dismutase-2 is part of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. SOD2 binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in SOD2 gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. SOD2 destroys radicals which are usually produced within the cells and which are toxic to biological systems. Recombinant Human SOD2 is a single, non-glycosylated, polypeptide chain containing 219 amino acids (aa 25-222) fused to a 20 aa His-Tag at the N-terminus and purified by standard chromatography.		
Gene ID:	6648		
Source:	E. coli		
Molecular Weight:	24.4 kD		
Formulation:	Sterile filtered colorless solution containing 20 mM Tris-HCl, pH 8, + 20% glycerol.		
Purity:	>95% as determined by SDS-PAGE		
Specific Activity:	>1,200 units/mg, in which one unit will inhibit the rate of reduction of cytochrome c by 50% in a coupled system, using xanthine and xanthine oxidase at pH 7.8 at 25°C in a 1.5 ml reaction volume.		
Amino Acid Sequence:	HHAAYVNNLN VTEEKYQEA NLSPNGGGEP KGELLEAIK	<b>RGSH</b> MKHSLPDLPY DYGALEPHIN AQIMQLHHSK EAL AKGDVTAQIA LQPALKFNGG GHINHSIFWT NKR DFGSFDKFKE KLTAASVGVQ GSGWGWLGFN QGT TGLIPLLGID VWEHAYYLQY KNVRPDYLKA KK	
Storage & Stability:	Store at 2-4°C if entire vial will longer periods of time. For lo (0.1% HSA or BSA). <b>Avoid</b> if	ong term storage it is recom	mended to add a carrier protein

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



Toll Free: 888-769-1246 Phone: 781-828-0610 Fax: 781-828-0542