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

SOD2 Mouse

Superoxide Dismutase-2 Mouse Recombinant
RCP2191

Product Overview

Name	SOD2 Mouse
Description	
Superoxide Dismutase-2 Mouse Recombinant	
Accession (Primary)	P09671
Synonyms	
Superoxide dismutase [Mn], Superoxide Dismutase-2, mitochondrial, Sod-2.	
Introduction	
SOD2 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
SOD2 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS KHSLPDL PYDYGALEPH INAQIMQLHH SKHHAAYVNN LNATEEKYHE ALAKGDVTTQ VALQPALKFN GGGHINHTIF WTNLSPKGGG EPKGELLEAI KRDFGSFEKF KEKLTAVSVG VQGSGWGWLG FNKEQGRLQI AACSNQDPLQ GTTGLIPLLG IDVWEHAYYL QYKNVRPDYL KAIWNVINWE NVTERYTACK K.	

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Precautions

SOD2 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P09671)