

Recombinant Human SOD2, MYC-DDK-tagged

Cat. No. SOD2-738H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SOD2 produced in Human HEK293 cells was fused with C-terminal MYC/DDK tag. MW = 22.2 kDa.
Species	Human
Source	HEK293
Description	This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Sequences	MLSRAVC GTSRQLA PVLGYLG SRQKHSL PDLPYDY GALEPHI NAQIMQL HHSKHHA AYVNNLN VTEEKYQ EALAKGD VTAQIAL QPALKFN GGGHINH SIFWTNL SPNGGGE PKGELLE AIKRDFG SFDKFKE KLTAASV GVQGS GW GWLGFNK ERGHLQI AACPNQD PLQGT TG LIPL LGI DVWEHAY YLQYKNV RPDY LKA IWNVINW ENVTERY MACKKTR TRPLEQK LISEED LAANDIL DYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Form	10% glycerol, 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	> 50 ug/ml as determined by BCA.
Endotoxin	< 0.1 EU per 1 µg of the protein by the LAL.
Storage	Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
GENE INFORMATION	
Gene Name	SOD2 superoxide dismutase 2, mitochondrial [Homo sapiens]
Synonyms	SOD2; superoxide dismutase 2, mitochondrial; IPO-B; MNSOD; MVCD6; Mn-SOD; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase; EC 1.15.1.1; Superoxide dismutase [Mn], mitochondrial; OTTHUMP00000017530; OTTHUMP00000017531; manganese superoxide dismutase
Gene ID	6648
mRNA Refseq	NM_000636
Protein Refseq	NP_000627
MIM	147460
UniProt ID	P04179
Chromosome Location	6q25
Pathway	Huntington"s disease

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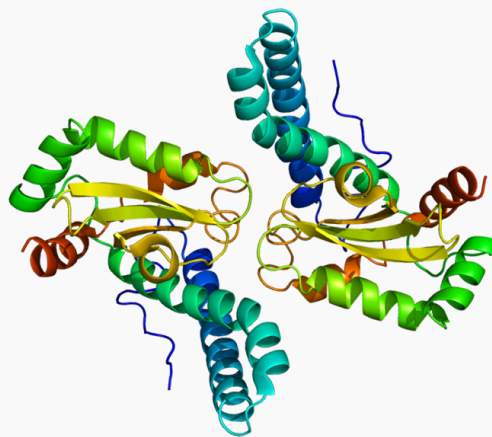
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Function

manganese ion binding; metal ion binding; oxidoreductase activity; oxygen binding; protein binding; superoxide dismutase activity

PDB rendering based
on 1ap5.



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