Recombinant Human Superoxide Dismutase 2, Mitochondrial, GST-tagged

Cat. No. SOD2-1636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SOD2 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
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.
Applications	Western Blot
Molecular Weight	51 kDa
Form	Recombinant protein stored in 50 mM Tris-HCL, pH 7.5, 150 mM NaCl, 0.1 mM PMSF, 0.25 mM DTT, 10 mM gluthione, 0.1 mM EDTA, 25 % glycerol.
Purity	> 90 %

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Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	SOD2 superoxide dismutase 2, mitochondrial [Homo sapiens]
Official Symbol	SOD2
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	6q25.3

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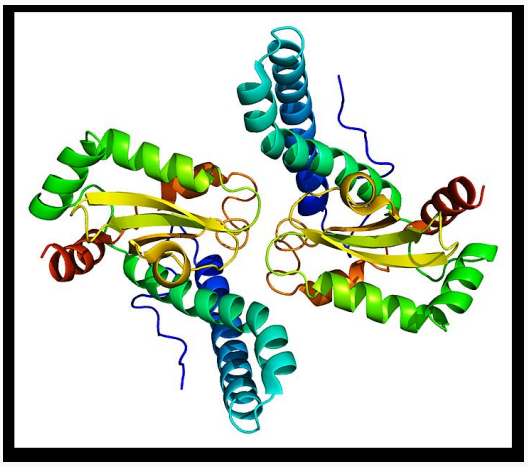
Location	
Function	manganese ion binding; metal ion binding; oxidoreductase activity; oxygen binding; protein binding; superoxide dismutase activity
PDB rendering based on 1ap5.	

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