

## Recombinant Human SOD2

Cat. No. SOD2-31475TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant full length Human Superoxide Dismutase 2 with N-terminal proprietary tag; amino acids 1-222, MW 51kDa.

**Species** Human

**Source** E.coli

**ProteinLength** 1-222 a.a.

**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.

**Form** Liquid

**Storage buffer** Preservative: None  
Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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<b>Sequence Similarities</b>	Belongs to the iron/manganese superoxide dismutase family.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	SOD2 superoxide dismutase 2, mitochondrial [ Homo sapiens ]
<b>Official Symbol</b>	SOD2
<b>Synonyms</b>	SOD2; superoxide dismutase 2, mitochondrial; superoxide dismutase [Mn], mitochondrial;
<b>Gene ID</b>	6648
<b>mRNA Refseq</b>	NM_000636
<b>Protein Refseq</b>	NP_000627
<b>MIM</b>	147460
<b>Uniprot ID</b>	P04179
<b>Chromosome Location</b>	6q25
<b>Pathway</b>	FoxO family signaling, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Oxidative Stress, organism-specific biosystem; Peroxisome, organism-specific biosystem;
<b>Function</b>	DNA binding; identical protein binding; manganese ion binding; manganese ion

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binding; metal ion binding;

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