

Recombinant Human SOD2

Cat. No. SOD2-1039H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	E.coli
Description	This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial matrix protein that forms a homotetramer and binds one manganese ion per subunit. This protein transforms toxic superoxide, a byproduct of the mitochondrial electron transport chain, into hydrogen peroxide and diatomic oxygen. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Research topic	Energy metabolism and body weight regulation
Storage	Superoxide dismutase 2 is supplied with a vial of storage buffer (20 mM Tris, pH7.5). Store at -80°C.

GENE INFORMATION

Gene Name	SOD2 superoxide dismutase 2, mitochondrial [Homo sapiens]
Official Symbol	SOD2
Synonyms	SOD2; superoxide dismutase 2, mitochondrial; IPOB; MNSOD; MVCD6; superoxide dismutase [Mn], mitochondrial; OTTHUMP00000017530; OTTHUMP00000017531; OTTHUMP00000238884; OTTHUMP00000238886; OTTHUMP00000238887;

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	indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase
Gene ID	6648
mRNA Refseq	NM_000636
Protein Refseq	NP_000627
MIM	147460
UniProt ID	P04179
Chromosome Location	6q25
Pathway	FoxO family signaling; Huntington"s disease; Oxidative Stress; Peroxisome; Selenium Pathway
Function	DNA binding; identical protein binding; manganese ion binding; manganese ion binding; oxidoreductase activity; oxygen binding; protein binding; superoxide dismutase activity

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