

Recombinant Human SOD2 Protein, N-His-tagged

Cat. No. SOD2-062H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SOD2 protein with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	222
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. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.
Form	Solution
Molecular Mass	24.4 kDa
AA Sequence	MLSRAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALEPHINAQIMQLHHSKHHA AYYNNLNVTEEKYQEALAKGDVTAQIALQPALKFNGGGGHINHSIFWTNLSPNGGGEP KGELLEAIKRDFGSFDKFKEKLTAASVGVQSGSGWGLGFNKERGHLQIAACPNDP LQGTGLIPLLIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYMACKK

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Purity	> 95%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	4°C
Concentration	1 mg/mL
Storage Buffer	Tris-HCl (pH 8). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	SOD2 superoxide dismutase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	SOD2
Synonyms	SOD2; superoxide dismutase 2, mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase; IPOB; MNSOD; MVCD6;
Gene ID	6648

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mRNA Refseq	NM_000636
Protein Refseq	NP_000627
MIM	147460
UniProt ID	P04179

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