Recombinant Human SOD2 Protein

Cat. No. PDE2A-145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SOD2/Mn-SOD protein (25-222) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	25-222
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	Lyophilized
Molecular Mass	22.3 kDa
Purity	≥97% estimated by SDS-PAGE
Stability	≥ 6 months

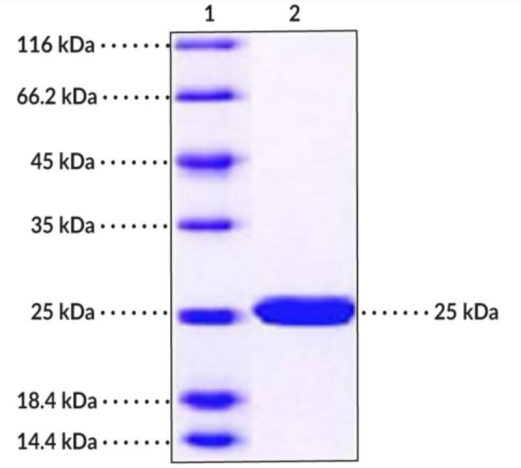
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Storage	At -80 centigrade.
Storage Buffer	Lyophilized from sterile PBS, pH 7.5

GENE INFORMATION

Gene Name	SOD2 superoxide dismutase 2 [Homo sapiens (human)]
Official Symbol	SOD2
Synonyms	SOD2; superoxide dismutase 2; IPOB; IPO-B; MNSOD; MVCD6; GClnc1; Mn-SOD; superoxide dismutase [Mn], mitochondrial; Mn superoxide dismutase; epididymis secretory sperm binding protein; gastric cancer-associated lncRNA 1; indophenoloxidase B; manganese-containing superoxide dismutase; mangano-superoxide dismutase; superoxide dismutase 2, mitochondrial; EC 1.15.1.1
Gene ID	6648
mRNA Refseq	NM_000636
Protein Refseq	NP_000627
MIM	147460
UniProt ID	P04179

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SDS-PAGE Analysis of SOD2	 Lane 1: MW Markers Lane 2: SOD2/Mn-SOD (human, recombinant)

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