

Recombinant Human SOD3

Cat. No. SOD3-31476TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 26-125 of Human Superoxide Dismutase 3, with an N-terminal proprietary tag, predicted MWt 36.63 kDa
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. The product of this gene is thought to protect the brain, lungs, and other tissues from oxidative stress. The protein is secreted into the extracellular space and forms a glycosylated homotetramer that is anchored to the extracellular matrix (ECM) and cell surfaces through an interaction with heparan sulfate proteoglycan and collagen. A fraction of the protein is cleaved near the C-terminus before secretion to generate circulating tetramers that do not interact with the ECM.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Expressed in blood vessels, heart, lung, kidney and placenta. Major SOD isoenzyme in extracellular fluids such as plasma, lymph and synovial fluid.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EPNSDSA EWIRDMYAKVTEIWQEVMQRRDDGTLHAACQVQPSATLDAAQPRVTG VVLFRQLAPRAKLDAFFALEGFPTENSSSRAIHVHQFGDLSQGC
Sequence Similarities	Belongs to the Cu-Zn superoxide dismutase family.

GENE INFORMATION

Gene Name	SOD3 superoxide dismutase 3, extracellular [Homo sapiens]
Official Symbol	SOD3
Synonyms	SOD3; superoxide dismutase 3, extracellular; extracellular superoxide dismutase [Cu-Zn]; EC SOD;
Gene ID	6649
mRNA Refseq	NM_003102
Protein Refseq	NP_003093
MIM	185490
Uniprot ID	P08294

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Chromosome Location	4pter-q21
Pathway	Folate Metabolism, organism-specific biosystem; Oxidative Stress, organism-specific biosystem; Selenium Pathway, organism-specific biosystem;
Function	copper ion binding; heparin binding; metal ion binding; oxidoreductase activity; protein binding;

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