

Recombinant Human SOD3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SOD3-5394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SOD3 MS Standard C13 and N15-labeled recombinant protein (NP_003093) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the conversion of superoxide radicals into hydrogen peroxide and oxygen, which may protect the brain, lungs, and other tissues from oxidative stress. Proteolytic processing of the encoded protein results in the formation of two distinct homotetramers that differ in their ability to interact with the extracellular matrix (ECM). Homotetramers consisting of the intact protein, or type C subunit, exhibit high affinity for heparin and are anchored to the ECM. Homotetramers consisting of a proteolytically cleaved form of the protein, or type A subunit, exhibit low affinity for heparin and do not interact with the ECM. A mutation in this gene may be associated with increased heart disease risk.
Molecular Mass	25.9 kDa
AA Sequence	MLALLCSCLLLAAGASDAWTGEDSAEPNSDSA EWIRDMYAKVTEIWQEVMQRRDD DGTLHAACQVQPSATLDAAQPRVTGVVLFRLAPRAKLDAFFALEGFTEPNSSSR AIHVHQFGDLSQGCESTGPHYNPLAVPHPQHPGDFGNFAVRDGS LWRYRAGLAAS

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LAGPHSIVGRAVVVHAGEDDLGRGGNQASVENGNAGRRLACCVGVCGPGLWER
QAREHSERKKRRRESECKAATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SOD3 superoxide dismutase 3 [Homo sapiens (human)]

Official Symbol SOD3

Synonyms SOD3; superoxide dismutase 3, extracellular; extracellular superoxide dismutase [Cu-Zn]; EC SOD; EC-SOD; MGC20077;

Gene ID 6649

mRNA Refseq NM_003102

Protein Refseq NP_003093

MIM 185490

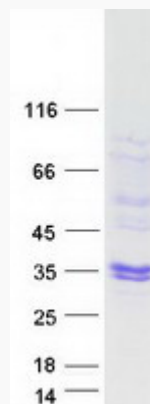
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UniProt ID

P08294

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