

Recombinant Full Length Human SOD3 Protein, Tag Free

Cat. No. SOD3-1038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SOD3 Protein (1-240 aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-240 aa
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.
Tag	Non
Molecular Mass	24 kDa
AA Sequence	WTGEDSAEPNSDSA EWIRDMYAKVTEIWQEVMQRRDDD GALHAACQVQPSATLD

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AAQPRVTGVVLFRLAPRAKLDAFFALEGFPTEPNSSSRRAIHVHQFGDLSQGCEST
GPHYNPLAVPHPQHPGDFGNFAVRDGLWRYRAGLAASLAGPHSIVGRAVVVHAG
EDDLGRGGNQASVENGNAGRRLACCVVGVCGLWERQAREHSERKKRRRESE
CKAA

Endotoxin < 1 EU/μg by LAL

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Sterile 50mM Tris, pH8.0, 300mM NaCl, 0.1% SKL

Concentration 0.11 mg/mL by BCA

GENE INFORMATION

Gene Name SOD3 superoxide dismutase 3, extracellular [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

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MIM	185490
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UniProt ID	P08294
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