

Recombinant Human superoxide dismutase 3, extracellular Protein, HA tagged

Cat. No. SOD3-59H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SOD3 Protein with C-HA and N-Glu-Ala was expressed in Yeast (animal free media and environment).
Species	Human
Source	Yeast
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	C-HA; N-Glu-Ala
Form	Lyophilized
Molecular Mass	25.5 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	(EA)WTGEDSAEPNSDSA EWIRDMYAKVTEIWQEVMQRRDDGALHAACQVQPSA TLDAAQPRVTGVVLFRLAPRAKLDAFFALEGFTEPNSSSR AIHVHQFGDLSQGCE STGPHYNPLAVPHPQH PGDFGNFAVRDGLWRYRAGLAASLAGPHSIVGRAVVVH AGEDDLGRGGNQASVENGNAGRRLACCVGVCGPGLWERQAREHSERKKRRRE SECKAAYPYDVPDYA
Endotoxin	< 0.2 EU/μg of protein as determined by the LAL method.
Purity	0.98
Storage	Stable for at least one year at -20 centigrade. Upon reconstitution HSA can be stored at +4 centigrade for 1 day or at -20 centigrade for 6 months.
Concentration	100 μg/μL
Storage Buffer	Phosphate -buffered saline (PBS), pH 7.4
Reconstitution	Spin the vial briefly, add distilled sterile water.

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

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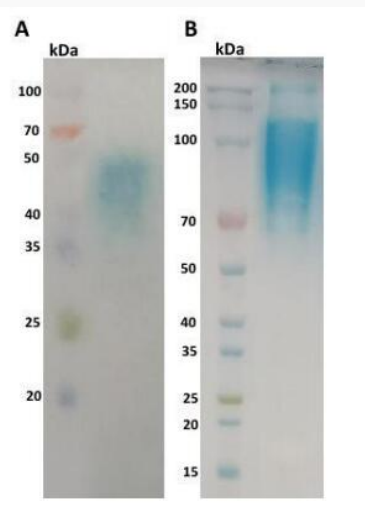
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Protein Refseq NP_003093

MIM 185490

UniProt ID P08294

SOD3 was loaded
and resolved on
SDS-PAGE



A: Western blot with Anti HA-tag Ab
B: Staining Alcian blue

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