

Recombinant Human SOD3 protein, GST-tagged

Cat. No. SOD3-203H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SOD3 fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	Extracellular superoxide dismutase [Cu-Zn] (SOD3) protects the extracellular space from toxic effect of reactive oxygen intermediates by converting superoxide radicals into hydrogen peroxide and oxygen. Although the function of SOD3 as a regulator of cellular growth has been well established, the role of SOD3 in tumorigenesis is still unclear.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	52 kDa
Endotoxin	<1.0 EU/μg of recombinant protein as determined by the LAL method.
Purity	>70%
Applications	Western Blot
Stability	1 year at -70 centigrade from the date of shipment.

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Storage	The lyophilized protein is stable for at least one year from date of receipt at -70 centigrade. Upon reconstitution, this cytokine can be stored in working aliquots at 2 centigrade- 8 centigrade for one month, or at -20 centigrade for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
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Concentration	0.05µg/µl
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GENE INFORMATION

Gene Name	SOD3 superoxide dismutase 3, extracellular [Homo sapiens]
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Official Symbol	SOD3
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Synonyms	SOD3; superoxide dismutase 3, extracellular; extracellular superoxide dismutase [Cu-Zn]; EC SOD; EC-SOD; MGC20077;
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Gene ID	6649
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mRNA Refseq	NM_003102
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Protein Refseq	NP_003093
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MIM	185490
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UniProt ID	P08294
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Chromosome Location	4pter-q21
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Pathway	Folate Metabolism, organism-specific biosystem; Oxidative Stress, organism-specific biosystem; Selenium Pathway, organism-specific biosystem; superoxide radicals
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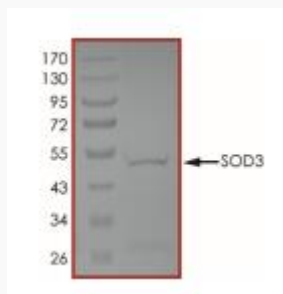
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degradation, organism-specific biosystem;

Function

copper ion binding; heparin binding; metal ion binding; oxidoreductase activity; protein binding; superoxide dismutase activity; zinc ion binding;



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