

## Recombinant Human SOD3 protein, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SOD3 fused with GST tag at N-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	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.
<b>Form</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	52 kDa
<b>Endotoxin</b>	<1.0 EU/μg of recombinant protein as determined by the LAL method.
<b>Purity</b>	>70%
<b>Applications</b>	Western Blot
<b>Stability</b>	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.

**Concentration** 0.05µg/µl

## 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; EC-SOD; MGC20077;

**Gene ID** 6649

**mRNA Refseq** NM\_003102

**Protein Refseq** NP\_003093

**MIM** 185490

**UniProt ID** P08294

**Chromosome Location** 4pter-q21

**Pathway** Folate Metabolism, organism-specific biosystem; Oxidative Stress, organism-specific biosystem; Selenium Pathway, organism-specific biosystem; superoxide radicals

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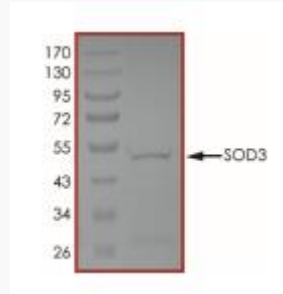
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degradation, organism-specific biosystem;

**Function**

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



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