

## Recombinant Human SOD2 protein, His/MBP-tagged

Cat. No. SOD2-329H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MSOD2(8-78 aa) fused with His/MBP tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	8-78 aa
<b>Description</b>	This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.
<b>Form</b>	Liquid in PBS
<b>Purity</b>	SDS-PAGE >90%
<b>Applications</b>	WB Positive Control
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

**Storage** Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** SOD2 superoxide dismutase 2, mitochondrial [ Homo sapiens ]

**Official Symbol** SOD2

**Synonyms** SOD2; superoxide dismutase 2, mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase; IPOB; MNSOD; MVCD6;

**Gene ID** 6648

**mRNA Refseq** NM\_000636

**Protein Refseq** NP\_000627

**MIM** 147460

**UniProt ID** P04179

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