

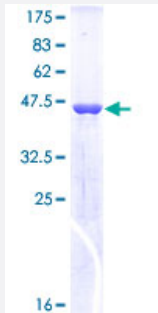
Full-Length

SOD2 (Human) Recombinant Protein (P01)

Catalog # H00006648-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human SOD2 full-length ORF (AAH12423.1, 1 a.a. - 222 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLSRAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALPHINAQIMQLHHSKHHAAYVNNLNVT EEKYQEALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKRDFGSFDKF KEKLTAASVGVQSGSGWGWLGFNKERGHLQIAACPNQDPLQGTGLIPLLGLDVWEHAYYLQYKNV RPDYLKAIWNVINWENVTERYMACKK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	49.94
Interspecies Antigen Sequence	Mouse (90); Rat (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SOD2

Entrez GeneID [6648](#)

GeneBank Accession# [BC012423](#)

Protein Accession# [AAH12423.1](#)

Gene Name SOD2

Gene Alias IPO-B, MNSOD, Mn-SOD

Gene Description superoxide dismutase 2, mitochondrial

Omim ID [147460](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations Mn superoxide dismutase|OTTHUMP00000017530|OTTHUMP00000017531|indophenoloxidase B|manganese superoxide dismutase|manganese-containing superoxide dismutase|mangano-superoxide dismutase

Publication Reference

- [Identification of tumor antigens in human lung squamous carcinoma by serological proteome analysis.](#)

Yang F, Xiao ZQ, Zhang XZ, Li C, Zhang PF, Li MY, Chen Y, Zhu GQ, Sun Y, Liu YF, Chen ZC.

Journal of Proteome Research 2006 Dec; 6(2):751.

Application: ELISA, Human, Human lung squamous carcinoma

Disease

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- [Albuminuria](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Angina Pectoris](#)
- [Arsenic Poisoning](#)
- [Arthritis](#)
- [Asbestosis](#)
- [Asthma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Barrett Esophagus](#)
- [Behcet Syndrome](#)
- [Biliary Tract Neoplasms](#)
- [Bipolar Disorder](#)

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- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cervical Intraepithelial Neoplasia](#)
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- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)

- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Drug-Induced Liver Injury](#)
- [Dyskinesia](#)
- [Edema](#)
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- [Esophagitis](#)
- [Exfoliation Syndrome](#)
- [Fatty Liver](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
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- [Infertility](#)
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- [Insulin Resistance](#)
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- [Tobacco Use Disorder](#)
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- [Urolithiasis](#)
- [Uterine Cervical Neoplasms](#)
- [Uveitis](#)
- [Varicocele](#)
- [Weight Gain](#)
- [Werner syndrome](#)