

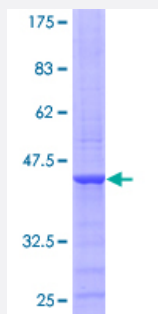
Full-Length

SOD2 (Human) Recombinant Protein (P02)

Catalog # H00006648-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SOD2 full-length ORF (AAH16934, 1 a.a. - 140 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLSRVCGTSRQLAPALGYLGSRQKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAVNNLNVT EEKYQEALAKGRFQAERREAVPGRGDPREPGPIRTGLSVEENSLRICTGSEFSRHDLSFKHMV YLIVEGVPRWV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	41.14
Interspecies Antigen Sequence	Mouse (83); Rat (82)
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# [BC016934](#)

Protein Accession# [AAH16934](#)

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

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Akathisia](#)
- [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](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)

- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiomyopathies](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Choroid Diseases](#)
- [Chromosome Aberrations](#)
- [Chronic Disease](#)
- [Cocarcinogenesis](#)
- [Cognition](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Drug-Induced Liver Injury](#)

- [Dyskinesia](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Exfoliation Syndrome](#)
- [Fatty Liver](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Glucose Intolerance](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Helicobacter Infections](#)
- [Hemochromatosis](#)
- [Hepatitis](#)
- [Hepatitis C](#)
- [Hereditary hemochromatosis](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Infertility](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Iron Overload](#)

- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leber hereditary optic neuropathy](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Macular Edema](#)
- [Malnutrition](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mesothelioma](#)
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- [Mouth Neoplasms](#)
- [Movement Disorders](#)
- [Multiple Chemical Sensitivity](#)
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- [Neoplasms](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Optic Atrophy](#)

- [Ovarian cancer](#)
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- [Pancreatic Neoplasms](#)
- [Pancreatitis](#)
- [Papillomavirus Infections](#)
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- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
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- [Poisoning](#)
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- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
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- [Pseudoxanthoma Elasticum](#)
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- [Radiation Injuries](#)
- [Raynaud Disease](#)
- [Respiratory Insufficiency](#)

- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sepsis](#)
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- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Stroke](#)
- [Substance-Related Disorders](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Urolithiasis](#)
- [Uterine Cervical Neoplasms](#)
- [Uveitis](#)
- [Varicocele](#)
- [Weight Gain](#)
- [Werner syndrome](#)