

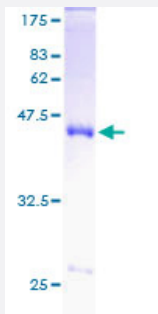
Full-Length

SOD1 (Human) Recombinant Protein (P01)

Catalog # H00006647-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human SOD1 full-length ORF (AAH01034, 1 a.a. - 154 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MATKAVCVLKGDGPVQGIINFEQKESNGPVKVWGSIKGLTEGLHGFHVHEFGDNTAGCTSAGPH FNPLSRKHGGPKDEERHVGDLGNVTADKDGADVSIEDSVISLSGDHCITGRTLTVHEKADDLGK GGNEESTKTGNAGSRLACGVIGIAQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	42.68
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 — SOD1

Entrez GeneID [6647](#)

GeneBank Accession# [BC001034](#)

Protein Accession# [AAH01034](#)

Gene Name SOD1

Gene Alias ALS, ALS1, IPOA, SOD, homodimer

Gene Description superoxide dismutase 1, soluble

Omim ID [105400](#) [147450](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq]

Other Designations Cu /Zn superoxide dismutase|Cu/Zn superoxide dismutase|SOD, soluble|indophenoloxidase A|superoxide dismutase, cytosolic

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Prion diseases](#)

Disease

- [Acute Disease](#)
- [Albuminuria](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Auditory Threshold](#)
- [Barrett Esophagus](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Coronary Artery Disease](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)

- [DNA Damage](#)
- [Edema](#)
- [Encephalitis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hearing Loss](#)
- [Hemorrhage](#)
- [Hepatitis](#)
- [Hypercholesterolemia](#)
- [Keratoconus](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Motor Neuron Disease](#)
- [Multiple Sclerosis](#)
- [Nerve Degeneration](#)
- [Neuroblastoma](#)
- [Neuropsychological Tests](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Pre-Eclampsia](#)

- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Reaction Time](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sensory Thresholds](#)
- [Urinary Bladder Neoplasms](#)
- [Urologic Diseases](#)
- [Weight Gain](#)
- [Werner syndrome](#)