

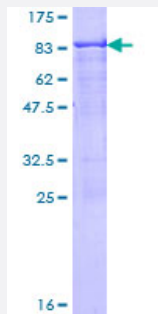
Full-Length

CAT (Human) Recombinant Protein (P01)

Catalog # H00000847-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CAT full-length ORF (NP_001743.1, 1 a.a. - 527 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MADSRDPASDQMQRHWKEQRAAQKADVLTTGAGNPVGDKLNVITVGPRGPLLQQDVVFTDEMA
HFDREIRIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGESGSADTVRD
PRGFAVKFYTEDGNWDLVGNNTPIFFIRDPILFPSFIHSQKRNPQTHLKDPDMVWDFWSLRPESL
HQVSFLFSDRGIPDGHHRMNGYGSHTFKLVNANGEAVYCKFHYKTDQGIKNSVEDAARLSQED
PDYGIRDLFNAIATGKYPSWTFYIQVMTFNQAETFPFNPFDLTKVWPHKDYPLIPVGKLVNLRNPVN
YFAEVEQIAFDPSNMPPGIEASPDKMLQGRLFAYPDTHRHRLGPNYLHIPVNCPPYRVRVANYQRD
GPMCMQDNQGGAPNYYPNSFGAPEQQPSALEHSIQYSGEVRRFNTANDDNVTQVRAFVNVNLN
EEQRKRLCENIAGHLKDAQIFIQKKAVKNFTEVHPDYGSHIQALLDKYNAEKPKNAIHTFVQSGSHL
AAREKANL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86.2

Interspecies Antigen Sequence

Mouse (89); Rat (89)

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 — CAT

Entrez GeneID	847
GeneBank Accession#	NM_001752.2
Protein Accession#	NP_001743.1
Gene Name	CAT
Gene Alias	MGC138422, MGC138424
Gene Description	catalase
Omim ID	115500
Gene Ontology	Hyperlink
Other Designations	-

Pathway

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

- [Metabolic pathways](#)
- [Methane metabolism](#)
- [Tryptophan metabolism](#)

Disease

- [Absenteeism](#)
- [Acute Disease](#)
- [Albuminuria](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Arsenic Poisoning](#)
- [Arthritis](#)
- [Asbestosis](#)
- [Asthma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiomyopathies](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Delayed Graft Function](#)

- [Depressive Disorder](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Models](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Helicobacter Infections](#)
- [Hypertension](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Intestinal Neoplasms](#)
- [Keratoses](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)

- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Malnutrition](#)
- [Melanoma](#)
- [Metaplasia](#)
- [Mouth Neoplasms](#)
- [Neoplasms](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Pancreatic Neoplasms](#)
- [Pancreatitis](#)
- [Poisoning](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pseudoxanthoma Elasticum](#)
- [Psychiatric Status Rating Scales](#)
- [Pulmonary Disease](#)
- [Recurrence](#)

- [Respiratory Tract Diseases](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Substance-Related Disorders](#)
- [Sunburn](#)
- [Urinary Bladder Neoplasms](#)
- [Vitiligo](#)
- [Werner syndrome](#)