

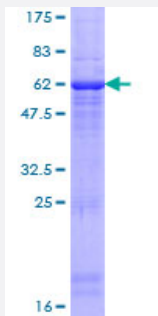
Full-Length

HP (Human) Recombinant Protein (P01)

Catalog # H00003240-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HP full-length ORF (AAH70299.1, 1 a.a. - 281 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSRISQMTAARSPRLHMAMWSTRFATSVRTNAVQRILGGHLDAGSFPWQAKMVSHHNLTTGATLINEQWLLTTAKNLFNLHSENATAKDIAPTLTLYVGKKQLVEIEKVVLHPNYSQVDIGLIKLKQKVSVERNRMPICLPSKDYAEVGRVGVSGWGRNANFKFTDHLKYVMLPVADQDQCIRHYEGSTVPEKKTPKSPVGVQPILNEHTFCAGMSKYQEDTCYGDAGSAFAVHDLLEEDTWYATGILSFDKSCAVAEYGVYVKVTSIQDWVQKTIAEN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

57.8

Interspecies Antigen Sequence

Mouse (82); Rat (81)

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 — HP

Entrez GeneID[3240](#)**GeneBank Accession#**[BC070299.1](#)**Protein Accession#**[AAH70299.1](#)**Gene Name**

HP

Gene Alias

BP, HP2-ALPHA-2, HPA1S, MGC111141

Gene Description

haptoglobin

Omim ID[140100](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohn's disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson's disease, and a reduced incidence of Plasmodium falciparum malaria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

binding peptide|haptoglobin alpha(1S)-beta|haptoglobin alpha(2FS)-beta|haptoglobin, alpha polypeptide|haptoglobin, beta polypeptide

Disease

- [Abortion](#)
- [Albuminuria](#)
- [alpha-Thalassemia](#)
- [Alzheimer disease](#)
- [Anemia](#)
- [Ascorbic Acid Deficiency](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Celiac Disease](#)
- [Chagas Cardiomyopathy](#)
- [Chagas Disease](#)
- [Cholangitis](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Coronary Stenosis](#)

- [Coronary Thrombosis](#)
- [Crohn Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Edema](#)
- [Epilepsy](#)
- [Fatty Liver](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Head and Neck Neoplasms](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)

- [Lymphoma](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Parasitemia](#)
- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Proteinuria](#)
- [Schizophrenia](#)
- [Seizures](#)
- [Sickle Cell Trait](#)
- [Sleep Apnea](#)
- [Stroke](#)
- [Thalassemia](#)
- [Trachoma](#)
- [Uterine Cervical Neoplasms](#)