

Full-Length

CYP1B1 (Human) Recombinant Protein (P01)

Catalog # H00001545-P01

Size 50 ug

Specification

Product Description	Human CYP1B1 full-length ORF (ADZ16030.1, 1 a.a. - 543 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGTSLSPNDPWPLNPLSIQQTLLLLSVLATVHV GQRLLRQRRRQLRSAPPGPFAWPLIGNAAA VGQAAHLSFARLARRYGDVFQIRLGSCPIVVLNGERAIHQALVQQGSAFADRP AFASFRVVS GGR SMAFGHYSEHWKVQRRAAHSMRNFFTRQPRSRQVLEGHVLSEARELVALLVRGSADGAFLDP RPLTVVAVANVMSAVCFGCRYSHDDPEFRELLSHNEEFGRTVGAGSLVDVMPWLQYFPNPVRT VFREFEQLNRNFSNFILDKFLRHCESLRPGAAPRDMMDAFILSAEKKAAGDSHG G GARLDLE NV PATITDIFGASQDTLSTALQWLLLLFTRYPDVQTRVQAELDQVVGRDRLPCM GDQPNLPYVLAFLY EAMRFSSFVPVTIPHATTANTSVLGYHIPKDTVVFNQWSVNHPVKWPNPENFD PARFLDKDG LINKDLTSRVMIFSVGKRRCIGEELSKMQLFLFISILAHQCDFRANPNEPAKMNFSYGLTIKPKSFKV NVTLRESMELLDSAVQNLQAKETCQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	59.8
Interspecies Antigen Sequence	Mouse (81); Rat (80)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
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 — CYP1B1

Entrez GeneID [1545](#)

GeneBank Accession# [JF432813.1](#)

Protein Accession# [ADZ16030.1](#)

Gene Name CYP1B1

Gene Alias CP1B, GLC3A, P4501B1

Gene Description cytochrome P450, family 1, subfamily B, polypeptide 1

Omim ID [137750](#) [137760](#) [231300](#) [601771](#) [604229](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The enzyme encoded by this gene localizes to the endoplasmic reticulum and metabolizes procarcinogens such as polycyclic aromatic hydrocarbons and 17beta-estradiol. Mutations in this gene have been associated with primary congenital glaucoma; therefore it is thought that the enzyme also metabolizes a signaling molecule involved in eye development, possibly a steroid. [provided by RefSeq]

Other Designations aryl hydrocarbon hydroxylase|cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)|flavoprotein-linked monooxygenase|microsomal monooxygenase|xenobiotic monooxygenase

Pathway

- [Metabolism of xenobiotics by cytochrome P450](#)
- [Tryptophan metabolism](#)

Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Asperger Syndrome](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Cholestasis](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cocarcinogenesis](#)
- [Cognition](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Cryptorchidism](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)

- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Glaucoma](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Hearing Loss](#)
- [Hot Flashes](#)
- [Hydrophthalmos](#)
- [Hypertension](#)
- [Hypopharyngeal Neoplasms](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leiomyoma](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Low Tension Glaucoma](#)
- [Lung carcinoma](#)
- [Lung Diseases](#)
- [Lung Neoplasms](#)

- [Lymphoma](#)
- [Meningioma](#)
- [Mesothelioma](#)
- [Multiple Myeloma](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Ocular Hypertension](#)
- [Oligospermia](#)
- [Optic Nerve Diseases](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Cysts](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Pleural Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Prenatal Exposure Delayed Effects](#)
- [Prostate cancer](#)

- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Seminoma](#)
- [Social Perception](#)
- [Stomach Neoplasms](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Neoplasms](#)
- [Vision Disorders](#)
- [Werner syndrome](#)