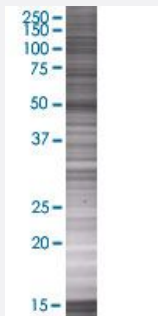


CYP2D6 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00001565-T01

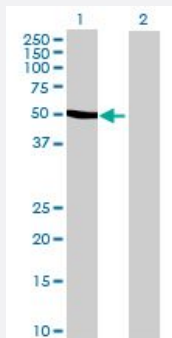
Size 100 uL

Applications



SDS-PAGE Gel

CYP2D6 transfected lysate.



Western Blot

Lane 1: CYP2D6 transfected lysate (54.78 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-CYP2D6 full-length
Host	Human
Theoretical MW (kDa)	54.78
Interspecies Antigen Sequence	Rat (73)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-CYP2D6 antibody ([H00001565-B01](#)) by Western Blots.
SDS-PAGE Gel
CYP2D6 transfected lysate.
Western Blot
Lane 1: CYP2D6 transfected lysate (54.78 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — CYP2D6

Entrez GeneID

[1565](#)

GeneBank Accession#

[BC075023.2](#)

Protein Accession#

[AAH75023.1](#)

Gene Name

CYP2D6

Gene Alias

CPD6, CYP2D, CYP2D@, CYP2DL1, MGC120389, MGC120390, P450-DB1, P450C2D, P450 DB1

Gene Description

cytochrome P450, family 2, subfamily D, polypeptide 6

Omim ID

[124030](#)

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. This protein localizes to the endoplasmic reticulum and is known to metabolize as many as 20% of commonly prescribed drugs. Its substrates include debrisoquine, an adrenergic-blocking drug; sparteine and propafenone, both anti-arrhythmic drugs; and amitriptyline, an anti-depressant. The gene is highly polymorphic in the population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. The gene is located near two cytochrome P450 pseudogenes on chromosome 22q13.1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

cytochrome P450 2D6|cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 6|cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing)-like 1|debrisoquine 4-hydroxylase|flavoprotein-linked monooxygen

Pathway

- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Drug metabolism - cytochrome P450](#)

Disease

- [Abortion](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Agranulocytosis](#)
- [Akathisia](#)
- [Alcohol-Related Disorders](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Anemia](#)
- [Anxiety Disorders](#)
- [Apnea](#)
- [Arrhythmia](#)
- [Arthritis](#)
- [Asthma](#)
- [Atrial Fibrillation](#)
- [Attention Deficit Disorder with Hyperactivity](#)

- [Balkan Nephropathy](#)
- [Basal Ganglia Diseases](#)
- [Birth Weight](#)
- [Bone Neoplasms](#)
- [Bradycardia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Child Behavior Disorders](#)
- [Child Development Disorders](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Consciousness](#)
- [Coronary Artery Disease](#)
- [Critical Illness](#)
- [Crohn Disease](#)
- [Cues](#)
- [Dementia](#)

- [Depression](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Disorders of Excessive Somnolence](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Drug-Induced Liver Injury](#)
- [Ductus Arteriosus](#)
- [Dyskinesia](#)
- [Dyskinesias](#)
- [Dysmenorrhea](#)
- [Dysthymic Disorder](#)
- [Edema](#)
- [Epilepsy](#)
- [Fatigue](#)
- [Fetal Diseases](#)
- [Gastrointestinal Diseases](#)
- [Gastroparesis](#)
- [Genetic Predisposition to Disease](#)
- [Genetics](#)
- [Glaucoma](#)
- [Head and Neck Neoplasms](#)
- [Heart Failure](#)

- [Hepatitis C](#)
- [Heroin Dependence](#)
- [HIV Infections](#)
- [Hot Flashes](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hyponatremia](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Lewy Body Disease](#)
- [Lichen Planus](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Long QT syndrome](#)
- [Low Back Pain](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)

- [Macular Degeneration](#)
- [Manganese Poisoning](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Mood Disorders](#)
- [Motor Neuron Disease](#)
- [Mouth Neoplasms](#)
- [Multiple Chemical Sensitivity](#)
- [Multiple Sclerosis](#)
- [Muscular Diseases](#)
- [Musculoskeletal Diseases](#)
- [Nausea](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nerve Degeneration](#)
- [Neuroleptic Malignant Syndrome](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Opioid-Related Disorders](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Otorhinolaryngologic Neoplasms](#)
- [Overdose](#)
- [Pain](#)
- [Pain Threshold](#)

- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Personality Assessment](#)
- [Personality Inventory](#)
- [Pituitary Neoplasms](#)
- [Poisoning](#)
- [Polycystic Ovary Syndrome](#)
- [Porphyria](#)
- [Porphyrias](#)
- [Postoperative Complications](#)
- [Postoperative Nausea and Vomiting](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychiatry](#)
- [Psychomotor Agitation](#)
- [Psychomotor Performance](#)
- [Psychophysiologic Disorders](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Tract Infections](#)

- [Respiratory Tract Neoplasms](#)
- [Rhinitis](#)
- [Satiation](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Scleroderma](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Substance Withdrawal Syndrome](#)
- [Substance-Related Disorders](#)
- [Syndrome](#)
- [Tachycardia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Urticaria](#)
- [Uterine Cervical Neoplasms](#)
- [Ventricular Premature Complexes](#)
- [Vomiting](#)
- [Weight Gain](#)
- [Werner syndrome](#)