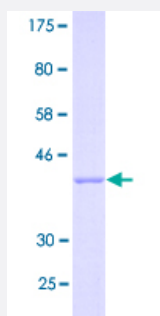


CYP7A1 (Human) Recombinant Protein (Q01)

Catalog # H00001581-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CYP7A1 partial ORF (NP_000771.2, 179 a.a. - 277 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	MFEAGYLTIFGRDLTRRDTQKAHILNNLDNFKQFDKVPALVAGLPIHMFRTAHNAREKLAESLRH ENLQKRESISELISLRMFLNDTLSTFDDLEKAK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (74); Rat (80)
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 — CYP7A1

Entrez GeneID [1581](#)

GeneBank Accession# [NM_000780.3](#)

Protein Accession# [NP_000771.2](#)

Gene Name CYP7A1

Gene Alias CP7A, CYP7, MGC126826, MGC138389

Gene Description cytochrome P450, family 7, subfamily A, polypeptide 1

Omim ID [118455](#)

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 endoplasmic reticulum membrane protein catalyzes the first reaction in the cholesterol catabolic pathway in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body. [provided by RefSeq]

Other Designations cholesterol 7 alpha-monooxygenase|cholesterol 7-alpha-hydroxylase|cytochrome P450, subfamily VIIA (cholesterol 7 alpha-monooxygenase), polypeptide 1

Pathway

- [Metabolic pathways](#)
- [PPAR signaling pathway](#)

- [Primary bile acid biosynthesis](#)

Disease

- [Adenoma](#)
- [Asperger Syndrome](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Drug Toxicity](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Gallbladder Neoplasms](#)
- [Gallstones](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertriglyceridemia](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Multiple Sclerosis](#)

- [Myelitis](#)
- [Myocardial Infarction](#)
- [Neuromyelitis Optica](#)
- [Obesity](#)
- [Social Perception](#)
- [Virilism](#)