

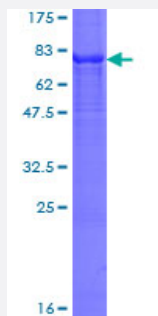
Full-Length

CYP7B1 (Human) Recombinant Protein (P01)

Catalog # H00009420-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CYP7B1 full-length ORF (NP_004811.1, 1 a.a. - 506 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAGEVSAATGRFSLERLGLPGLALAAALLLLALCLLVRRTRRPGEPLIKGWLPYLGVVNLNRKDP
LRFMKTLLQKHGDTFTVLLGGKYTFILDPFQYQLVIKHNKQLSFRVFSNKLEKAFFSISQLQKNHD
MNDLHLCYQFLQGKSLDILLESMMQNLKQVFEPQLLKTTSWDTAELYPFCSSIFEITFTTIYGVIV
CDNNKFISELRDDFLKFDDKFAYLVSNPIELLGNVKSIREKIIKCFSSSEKLAKMQGWSEVFQSRQD
VLEKYYVHEDLEIGAHHLGFLWASVANTIPTMFWAMYLLRHPEAMAAVRDEIDRLLQSTGQKKG
SGFPIHLTREQLDSLICLESSIFEALRLSSYSTTIRFVEEDLTLSSETGDYCVRKGDVLAIFPPVLHG
DPEIFEAPEEFYDRFIEDGKKKTTFKRGKKLKCYLMPFGTGTSKCPGRFFALMEIKQLLVILLTYF
DLEIIDDKPIGLNYSRLLFGIQPDSVDLFRYKVKS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.7

Interspecies Antigen Sequence

Mouse (67); Rat (66)

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 — CYP7B1

Entrez GeneID	9420
GeneBank Accession#	NM_004820.2
Protein Accession#	NP_004811.1
Gene Name	CYP7B1
Gene Alias	CBAS3, CP7B, SPG5A
Gene Description	cytochrome P450, family 7, subfamily B, polypeptide 1
Omim ID	603711
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 of extrahepatic tissues, which converts cholesterol to bile acids. This enzyme likely plays a minor role in total bile acid synthesis, but may also be involved in the development of atherosclerosis, neurosteroid metabolism and sex hormone synthesis. [provided by RefSeq]
Other Designations	cytochrome P450, subfamily VII B (oxysterol 7 alpha-hydroxylase), polypeptide 1 oxysterol 7 alpha-hydroxylase

Pathway

- [Primary bile acid biosynthesis](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)