

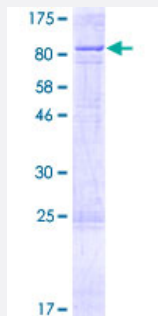
Full-Length

CYP11B1 (Human) Recombinant Protein (P01)

Catalog # H00001584-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CYP11B1 full-length ORF (AAH96285.1, 1 a.a. - 574 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALRAKAEVCMAPWLSLQRAQALGTRAARVPRTVLPFEAMPRRPGNRWLRLLQWREQGYED
LHLEVHQTFQELGPIFRSRHSASFGRWGRSAARAGLWRCQGRGWCRANPSSLQRGQDSEALK
YDLGGAGMVCVMLPEDVEKLQQVDSLPHRMSLEPWWAYRQHRGHKCGVFLLNVADRGNSSP
PFPGGIHGAPTHSGCRNGPEWRFNRLRLNPEVLSRNAVQRFLPMVDAVARDFSQALKKKVLQN
ARGSLTLDVQPSIFHYTIEASNLALFGERLGLVGHSPSSASLNFLHALEVFMFKSTVQLMFMPRSLS
RWTSPKVWKEHFEAWDCIFQYGDNCIQKIYQELAFSRPQQYTSMAEILLNAELSPDAIKANSME
TAGSVDTTVFPLMLTFELARNPNVQQALRQESLAAAASISEHPQKATTELP LLRAALKETRLRYP
VGLFLERVASSDLVLQNYHIPAGTLVRVFLYSLGRNPALFPRPERYNPQRWLDIRGSGRNFYHVPF
GFGMRQCLGRRLAEEAEMLLLLHHVLKHLQVETLTQEDIKMVYSFILRPSMFPLLTFRIN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

91.5

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 — CYP11B1

Entrez GeneID[1584](#)**GeneBank Accession#**[BC096285.3](#)**Protein Accession#**[AAH96285.1](#)**Gene Name**

CYP11B1

Gene Alias

CPN1, CYP11B, DKFZp686B05283, FHI, FLJ36771, P450C11

Gene Description

cytochrome P450, family 11, subfamily B, polypeptide 1

Omim ID[103900 202010 610613](#)**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 mitochondrial inner membrane and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq]

Other Designations

cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 1|cytochrome p450 XIB1|steroid 11-beta-hydroxylase|steroid 11-beta-monooxygenase

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adrenal Cortex Neoplasms](#)
- [Adrenal hyperplasia](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperaldosteronism](#)
- [Hypertension](#)
- [Infant](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Postoperative Complications](#)
- [Social Perception](#)