

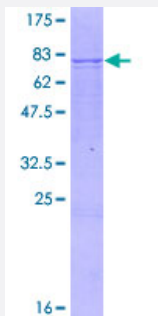
Full-Length

CYP3A7 (Human) Recombinant Protein (P01)

Catalog # H00001551-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CYP3A7 full-length ORF (NP_000756.1, 1 a.a. - 503 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDLIPNLAVETWLLLAVSLILLYLGTRTHGLFKKLGIPGPTPLPFLGNALSFRKGYWTFDMECYKK
YRKVWGIYDCQQPMLAITDPDMIKTVLVKECYSVFTNRRPFGPVGFMKNAISIAEDEEWKRIRSLLS
PTFTSGKLKEMVPIIAQYGDVLVRNLRREAETGKPVTLKHVFGAYSMDVITSTSFGVSLNNPQD
PFVENTKKLLRFNPLDPFVLSIKVFPFLTPILEALNITVFPRKVISFLTKSVKQIKEGRLKETQKHRVD
FLQLMDSQNSKDSETHKALSDLELMAQSIIFIFAGYETTSSVLSFIYELATHPDVQQKVQKEIDTVL
PNKAPPTYDITVLQLEYLDMVNETLRLFPVAMRLERVCKKDVEINGMFIPKGVVVMIPSYVLHHD
KYWTEPEKFLPERFSKKNKDNDPYITPFGSGPRNCIGMRFALVNMKLALVRVLQNFSEFKPKET
QIPLKLRFGGLLLTEKPMKAESRDETVSGA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

83.9

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 — CYP3A7

Entrez GeneID[1551](#)**GeneBank Accession#**[NM_000765.2](#)**Protein Accession#**[NP_000756.1](#)**Gene Name**

CYP3A7

Gene Alias

CP37, P450-HFLA

Gene Description

cytochrome P450, family 3, subfamily A, polypeptide 7

Omim ID[605340](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene, CYP3A7, 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 enzyme hydroxylates testosterone and dehydroepiandrosterone 3-sulphate, which is involved in the formation of estriol during pregnancy. The enzyme also metabolizes some drugs such as aflatoxin B1. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Transcript variants have been described, but it is not known whether these transcripts are normally produced. [provided by RefSeq]

Other Designations

aryl hydrocarbon hydroxylase|cytochrome P450, subfamily IIIA, polypeptide 7|flavoprotein-linked monooxygenase|microsomal monooxygenase|xenobiotic monooxygenase

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Drug metabolism - other enzymes](#)
- [gamma-Hexachlorocyclohexane degradation](#)
- [Linoleic acid metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Retinol metabolism](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)

- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)