

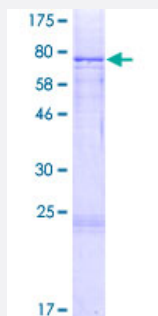
Full-Length

CYP27A1 (Human) Recombinant Protein (P01)

Catalog # H00001593-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CYP27A1 full-length ORF (NP_000775.1, 1 a.a. - 531 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAALGCARLRWALRGAGRGLCPHGARAKAAIPAALPSDKATGAPGAGPGVRRRQRSLEEIPRLG
QLRFFFQLFVQGYALQLHQLQVLYKAKYGPMWMSYLGPMHVNLASAPLLEQVMRQEGKYPVR
NDMELWKEHRDQHDLTYGPTTEGHHWYQLRQALNQRLKPAEAALYDAFNEIDDFMTRLDQ
LRAESASGNQVSDMAQLFYFALEAICYLFEKRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPK
WTRPVLPFWKRYLDGWNAIFSFGKKLIDEKLEDEMEALQAAGPDGIQVSGYLHFLASGQLSPRE
AMGSLPELLMAGVDTTSNTLTWALYHLSKDPEIQEALHEEVVGVVPAGQVPQHKDFAHMPLLKA
VLKETLRLYPVVPTNSRIEKEIEVDGFLFPKNTQFVFCHYVVS RDPTAFSEPE SFQPHRWLRNSQ
PATPRIQHPFGSVPF GYGVRACLGRRIAELEMQLLLARLIQKYKVV LAPETGELKSVARMLVPNKK
VGLQFLQRQC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86.6

Interspecies Antigen Sequence

Mouse (72); Rat (73)

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 — CYP27A1

Entrez GeneID	1593
GeneBank Accession#	NM_000784.2
Protein Accession#	NP_000775.1
Gene Name	CYP27A1
Gene Alias	CP27, CTX, CYP27
Gene Description	cytochrome P450, family 27, subfamily A, polypeptide 1
Omim ID	213700 606530
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 mitochondrial protein oxidizes cholesterol intermediates as part of the bile synthesis pathway. Since the conversion of cholesterol to bile acids is the major route for removing cholesterol from the body, this protein is important for overall cholesterol homeostasis. Mutations in this gene cause cerebrotendinous xanthomatosis, a rare autosomal recessive lipid storage disease. [provided by RefSeq]
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Other Designations

5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 26-hydroxylase|5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 27-hydroxylase|cholestanetriol 26-monooxygenase|cytochrome P-450C27/25|cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrot

Pathway

- [Metabolic pathways](#)
- [PPAR signaling pathway](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)