

Recombinant Full Length Human CYP27A1 Protein, GST-tagged

Cat. No. CYP27A1-2338HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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

Species

Human

Source

In Vitro Cell Free System

ProteinLength

531 amino acids

Description

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, Jul 2008]

Molecular Mass

86.6 kDa

AA Sequence

MAALGCARLRWALRGAGRGLCPHGARA KAAIPAALPSDKATGAPGAGPGVRRRQR
SLEEIPRLGQLRFFFQLFVQGYALQLHQLQVLYKAKYGPWWMSYLGPMHVNLSA
PLLEQVMRQEGKYPVRNDMELWKEHRDQHDLYGPFTEGHHWYQLRQALNQRL
LKPAAEALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMAQLFYFALEAICYILFE

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KRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLPFWKRYLDGWNAIFSF
 GKKLIDEKLEDMEAQLQAAGPDGIQVSGYLHFLASGQLSPREAMGSLPELLMAGV
 DTTSNLTWALYHLSKDPEIQEALHEEVVGVVPAQVQPQHKDFAHMPLLKAVLKETL
 RLYPVVPTNSRIIEKEIEVDGFLFPKNTQFVVFCHYVVS RDPTAFSEPEFSQPHRWLRN
 SQPATPRIQHPPFGSVFPGYGVRACLGRRIAELEMQLLLARLIQKYKVV LAPETGELKS
 VARIVLVPNKKVGLQLQRQC

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CYP27A1 cytochrome P450, family 27, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP27A1
Synonyms	CYP27A1; cytochrome P450, family 27, subfamily A, polypeptide 1; CYP27, cytochrome P450, subfamily XXVIIA (steroid 27 hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1; sterol 26-hydroxylase, mitochondrial; cerebrotendinous xanthomatosis; CP27; CTX; cytochrome P450 27; sterol 27-hydroxylase; cytochrome P-450C27/25; vitamin D(3) 25-hydroxylase; cholestanetriol 26-monooxygenase; 5-beta-cholestane-3-alpha,7-alpha,12-alpha-triol 27-hydroxylase; 5-beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 26-hydroxylase; 5-



beta-cholestane-3-alpha, 7-alpha, 12-alpha-triol 27-hydroxylase; cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1; CYP27;

Gene ID [1593](#)

mRNA Refseq [NM_000784](#)

Protein Refseq [NP_000775](#)

MIM [606530](#)

UniProt ID [Q02318](#)

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