

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 KAAIP AALPSDKATGAPGAGPGVRRRQR SLEEIPRLGQLRFFFFQLFVQGYALQLHQLQVLYKAKYGPWWMSYLGPMHVNLSA PLLEQVMRQEGKYPVRNDMELWKEHRDQHDLTYGPFTEGHHWYQLRQALNQRL LKPAEAALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMAQLFYFFALEAICYILFE

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KRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLPFWKRYLDGWNAIFSF
GKKLIDEKLEDMEAQLQAAGPDGIQVSGYLHFLASGQLSPREAMGSLPELLMAGV
DTTSNTLTWALYHLSKDPEIQEALHEEVVGVVPAGQVPQHKDFAHMPLLKAVLKETL
RLYPVVPTNSRIIEKEIEVDGFLFPKNTQFVFCHYVVS RDPTAFSEPESEFQPHRWLRN
SQPATPRIQHPPFGSVPPGYGVRACLGRRIAELEMQLLLARLIQKYKVV LAPETGELKS
VARIVLVPNNKKVGLQLQRQC

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-

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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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