

Recombinant Human CYP27A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYP27A1-6303H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYP27A1 MS Standard C13 and N15-labeled recombinant protein (NP_000775) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	60.26 kDa
AA Sequence	MAALGCARLRWALRGAGRGLCPHGARAKAAIPAALPSDKATGAPGAGPGVRRRQR SLEEIPRLGQLRFFFQLFVQGYALQLHQLQVLYKAKYGPMWMSYLGPMHVNLSA PLLEQVMRQEGKYPVRNDMELWKEHRDQHDLTYPFTTEGHHWYQLRQALNQRL LKPAEAALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMVQLFYFFALEAICYILFE KRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLPFWKRYLDGWNAIFSF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GKKLIDEKLEDMEAQLQAAGPDGIQVSGYLHFLLASGQLSPREAMGSLPELLMAGV
 DTTSNTLTWALYHLSKDPEIQEALHEEVGVVPAGQVPQHKDFAHMPLLKAVLKETL
 RLYPVVPTNSRIIEKEIEVDGFLFPKNTQFVFCHYVVS RDPTAFSEPESEFQPHRWLRN
 SQPATPRIQHFPFGSVFPGYGVRACLGRRIAELEMQLLLARLIQKYKVLAPETGELKS
 VARIVLVPNNKKVGLQFLQRQCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CYP27A1 cytochrome P450 family 27 subfamily A member 1 [Homo sapiens (human)]

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

SDS-PAGE

