

Recombinant Full Length Human CYP27A1 Protein, C-Flag-tagged

Cat. No. CYP27A1-1332HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CYP27A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	56.9 kDa
AA Sequence	MAALGCARLRWALRGAGRGLCPHGARA KAAIPAALPSDKATGAPGAGPGVRRRQR SLEEIPRLGQLRFFF QLFVQGYALQLHQLQVLYKAKYGPMWMSYLGPMHVN LAS APLLEQVMRQEGKYPVRNDMELWKEHRDQH DLTYGPFTTEGHHWYQLRQALNQ RLKPAEAALYTD AFNEIDDFMTRLDQLRAESASGNQVSDMVQLFY YFALEAICYIL

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FEKRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLPPFWKRYLDGWNAIF
S FGKKLIDEKLEDMEAQLQAAGPDGIQVSGYLHFLLASGQLSPREAMGSLPELLMA
GVDTTSTNTLTWALYH LSKDPEIQEALHEEVVGVPAGQVPQHKDFAHMPLLKAVLK
ETRLRYPVPTNSRIIEKEIEVDGFLFPK NTQFVFCHYVVS RDPTAFSEPE SFQPHR
WLRNSQPATPRIQH PFGSV PFGYGV RACLGRRIA ELEMQLLL
ARLIQKYKVVLAPETGELKS VARIVL VPKK VGLQLQRQCTRTRPLEQKLISEEDLA
ANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, P450
Protein Pathways	Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis
Full Length	Full L.

GENE INFORMATION

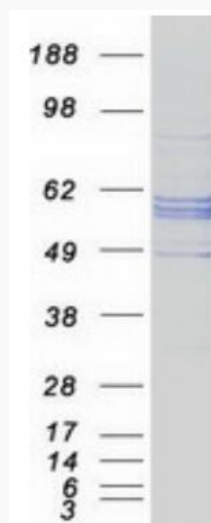
Gene Name CYP27A1 cytochrome P450 family 27 subfamily A member 1 [Homo sapiens (human)]

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Official Symbol	CYP27A1
Synonyms	CTX; CP27; CYP27
Gene ID	1593
mRNA Refseq	NM_000784.4
Protein Refseq	NP_000775.1
MIM	606530
UniProt ID	Q02318



Coomassie blue staining of purified CYP27A1 protein.