

Product datasheet for **TP322953M**

CYP27A1 (NM_000784) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome P450, family 27, subfamily A, polypeptide 1 (CYP27A1), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222953 representing NM_000784 Red =Cloning site Green =Tags(s) MAALGCARLRWALRGAGRGLCPHGARAKAAIPAALPSDKATGAPGAGPGVRRRQRSLEEIPRLGQLRFFF QLFVQGYALQLHQLQVLYKAKYGPMWMSYLGPMHVNLASAPLLEQVMRQEGKYPVRNDMELWKEHRDQH DLTYGPFTEGHHWYQLRQALNQRLKPAEAAALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMVQLFY YFALEAICYILFEKRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLFPWKRYLDGWN AIFS FGKKLIDEKLEDMEAQLQAAGPDGIQVSGYLHLLASGQLSPREAMGSLPELLMAGVDTTSNLTLWALYH LSKDPEIQEALHEEVGVVPAGQVPQHKDFAHMPLLKAVLKETLRLYPVPTNSRIIEKEIEVDGFLFPK NTQVFVCHYVSRDPTAFSEPFQPHRWLRNSQPATPRIQHPFGSVFPFYGVRACLGRRIAELEMQLLL ARLIQKYKVV LAPETGELKSVARIVLVPNKKVGLQLQRQC TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	56.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000775](#)

Locus ID: 1593

UniProt ID: [Q02318](#)

RefSeq Size: 2059

Cytogenetics: 2q35

RefSeq ORF: 1593

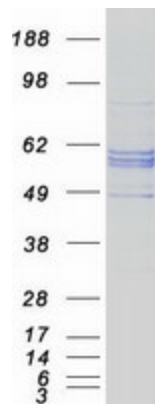
Synonyms: CP27; CTX; CYP27

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, Jul 2008]

Protein Families: Druggable Genome, P450

Protein Pathways: Metabolic pathways, PPAR signaling pathway, Primary bile acid biosynthesis

Product images:



Coomassie blue staining of purified CYP27A1 protein (Cat# [TP322953]). The protein was produced from HEK293T cells transfected with CYP27A1 cDNA clone (Cat# [RC222953]) using MegaTran 2.0 (Cat# [TT210002]).