

Product datasheet for PH322953

CYP27A1 (NM_000784) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYP27A1 MS Standard C13 and N15-labeled recombinant protein (NP_000775)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222953
Predicted MW:	60.26 kDa
Protein Sequence:	>RC222953 representing NM_000784 Red=Cloning site Green=Tags(s)

MAALGCARLRWALRGAGRGLCPHGARA KAAIPAALPSDKATGAPGAGPGVRRRQRSLEEIPRLGQLRFFF
QLFVQGYALQLHQLQVLYKAKYGPMWMSYLGPMHVNLASAPLLEQVMRQEGKYPVRNDMELWKEHRDQH
DLTYGPFTEGHHWYQLRQALNQRLKPAEALYTDAFNEVIDDFMTRLDQLRAESASGNQVSDMVQLFY
YFALEAICYILFEKRIGCLQRSIPEDTVTFVRSIGLMFQNSLYATFLPKWTRPVLFPWKRYLDGWN AIFS
FGKKLIDEKLEDMEAQLQAAGPDGIQVSGYLHFL LASGQLSPREAMGSLPELLMAGVDTTNTLTWALYH
LSKDPEIQEALHEEVGVVVPAGQVPQHKDFAHMPLLKAVLKETLRLYPVPTNSRIIEKEIEVDGFLFPK
NTQFVFCYVVS RDPTAFSEPE SFQPHRWLRNSQPATPRIQHPFGSVPFYGVRA CLGRRIAELEMQLLL
ARLIQKYKVV LAPETGELKSVARIVLVPNKVGLQFLQRQC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000775
RefSeq Size:	2059
RefSeq ORF:	1593



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Synonyms: CP27; CTX; CYP27

Locus ID: 1593

UniProt ID: [Q02318](#)

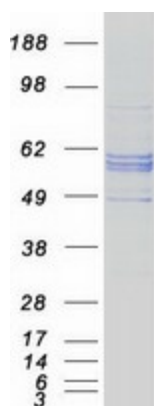
Cytogenetics: 2q35

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]).