

Product datasheet for PH307078

CYP51A1 (NM_000786) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYP51A1 MS Standard C13 and N15-labeled recombinant protein (NP_000777)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207078
Predicted MW:	57.3 kDa
Protein Sequence:	>RC207078 protein sequence Red=Cloning site Green=Tags(s)

MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKSPPIYI
FSPIPFLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFITYLLGSDAAALLFNSKNEDLNAEDVYSRL
TTPVFGKGVAYDVPNPVFLEQKKMLKSGLNIAHFQHVSIIEKETKEYFESWGESGEKNVFEALSELIIIL
TASHCLHGKEIRSQLEKVAQLYADLDGGFSHAALLPGWLPSPFRDRHREIKDIFYKAIQKRRQS
QEKIDDLQTLDDATYKDGRLTDDEVAGMLIGLLLAGQHTSSTSAWGMFFLARDKTLQKCYLEQKTV
CGENLPPLTYDQLKDLNLLDRCIKETLRLRPPVMIMMRMARTPQTVAGYTIIPPGHQVCVSPTVNQRLKDS
WVERLDFNPDRYLQDNPASGEKFAYVFPFAGRHRICIGENFAYVQIKTIWSTMLRLYFDLIDGYFPTVNY
TTMIHTPENPVIRYKRRSK

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<u>NP_000777</u>
RefSeq Size:	3208
RefSeq ORF:	1527



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Synonyms: CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1

Locus ID: 1595

UniProt ID: [Q16850](#), [A0A0C4DFL7](#)

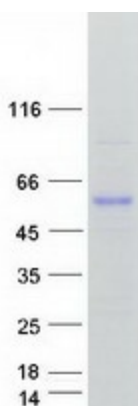
Cytogenetics: 7q21.2

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 endoplasmic reticulum protein participates in the synthesis of cholesterol by catalyzing the removal of the 14alpha-methyl group from lanosterol. Homologous genes are found in all three eukaryotic phyla, fungi, plants, and animals, suggesting that this is one of the oldest cytochrome P450 genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]

Protein Families: Druggable Genome, P450, Transmembrane

Protein Pathways: Metabolic pathways, Steroid biosynthesis

Product images:



Coomassie blue staining of purified CYP51A1 protein (Cat# [TP307078]). The protein was produced from HEK293T cells transfected with CYP51A1 cDNA clone (Cat# [RC207078]) using MegaTran 2.0 (Cat# [TT210002]).