

Product datasheet for **TP307078M**

CYP51A1 (NM_000786) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome P450, family 51, subfamily A, polypeptide 1 (CYP51A1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207078 protein sequence Red =Cloning site Green =Tags(s)

MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKSPPIY
FSPIPLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFTYLLGSDAAALLFNSKNEDLNAEDVYSRL
TTPVFGKGVAYDVPNPVFLQKMLKSGLNIAHFKQHVSIIKETKEYFESWGESGEKNVFEALSELIL
TASHCLHGKEIRSQLNEKVAQLYADLDGGFSHAAWLLPGWLPSPFRRRDRAHREIKDIFYKAIQKRRQS
QEKIDDILQTLDDATYKDGRPLTDDEVAGMLIGLLLAGQHTSSTTSAWMGFFLARDKTLQKKCYLEQKTV
CGENLPPTYDQLKDLNLLDRCIKETLRLRPPVMIMMRMARTPQTVAGYTIPPGHQVCVSPTVNQRLKDS
WVERLDFNPDRYLQDNPASGEKFAYVPGFAGRHRCIGENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNY
TTMIHTPENPVIRYKRRSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

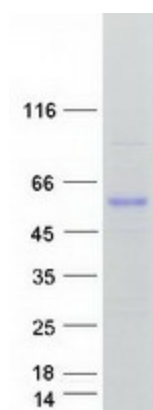
Tag:	C-Myc/DDK
Predicted MW:	57.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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_000777
Locus ID:	1595
UniProt ID:	Q16850 , A0A0C4DFL7
RefSeq Size:	3208
Cytogenetics:	7q21.2
RefSeq ORF:	1527
Synonyms:	CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1
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]).