

## Product datasheet for **TP307078L**

### **CYP51A1 (NM\_000786) Human Recombinant Protein**

#### **Product data:**

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

MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKSPPIY  
FSPIPLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFTYLLGSDAAALLFNSKNEDLNAEDVYSRL  
TTPVFGKGVAYDVPNPVFLQKMLKSGLNIAHFKQHVSIIKETKEYFESWGESGEKNVFEALSELIIL  
TASHCLHGKEIRSQLNEKVAQLYADLDGGFSHAAWLLPGWLPSPFRRRDRAHREIKDIFYKAIQKRRQS  
QEKIDDILQTLDDATYKDGRPLTDDEVAGMLIGLLLAGQHTSSTTSAWMGFFLARDKTLQKKCYLEQKTV  
CGENLPPLTYDQLKDLNLLDRCIKETLRLRPPVMIMMRMARTPQTVAGYTIPPGHQVCVSPTVNQRLKDS  
WVERLDFNPDRYLQDNPASGEKFAYVPGFAGRHRGIGENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNY  
TTMIHTPENPVIRYKRRSK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

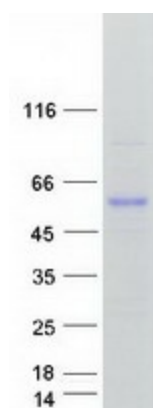
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	57.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000777</a>
<b>Locus ID:</b>	1595
<b>UniProt ID:</b>	<a href="#">Q16850</a> , <a href="#">A0A0C4DFL7</a>
<b>RefSeq Size:</b>	3208
<b>Cytogenetics:</b>	7q21.2
<b>RefSeq ORF:</b>	1527
<b>Synonyms:</b>	CP51; CYP51; CYPL1; LDM; P450-14DM; P450L1
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	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]).