

Recombinant Full Length Human CYP51A1 Protein, C-Flag-tagged

Cat. No. CYP51A1-1748HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CYP51A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 14α-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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57.1 kDa
AA Sequence	MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHL VQLPAGVKSPPIY FSIPIFLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFTYLLG SDAAALLFNSKNEDLNAEDVYSRL TTPVFGKGVAYDVPNPVFLEQKKMLKSGLNIA HFKQHVSIIKETKEYFESWGESGEKNVFEALSELIL TASHCLHGKEIRSQNLNEKVA

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QLYADLDGGFSHAAWLLPGWLPLPSFRRRDRAHREIKDIFYKAIQKRRQS QEKIDDI
 LQTLDDATYKDGRPLTDDEVAGMLIGLLLAGQHTSSTTSAWMGFFLARDKTLQKKCY
 LEQKTV CGENLPPLTYDQLKDLNLLDRCIKETLRLRPPVMIMMRMARTPQTVAGYTI
 PPGHQVCVSPTVNQRLKDS WVERLDFNPDRYLQDNPASGEKFAYVPFGAGRHRCI
 GENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNY
 TTMIHTPENPVIRYKRRSKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, P450, Transmembrane
Protein Pathways	Metabolic pathways, Steroid biosynthesis
Full Length	Full L.

GENE INFORMATION

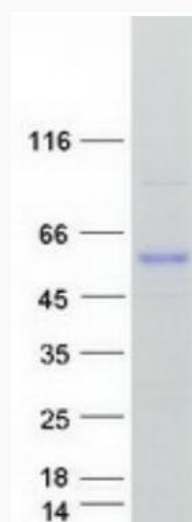
Gene Name	CYP51A1 cytochrome P450 family 51 subfamily A member 1 [Homo sapiens (human)]
Official Symbol	CYP51A1

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Synonyms	LDM; CP51; CYP51; CYPL1; P450L1; P450-14DM
Gene ID	1595
mRNA Refseq	NM_000786.4
Protein Refseq	NP_000777.1
MIM	601637
UniProt ID	Q16850



Coomassie blue staining of purified CYP51A1 protein.