

## Product datasheet for TP307432

### Cytochrome P450 3A5 (CYP3A5) (NM\_000777) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human cytochrome P450, family 3, subfamily A, polypeptide 5 (CYP3A5), 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC207432 protein sequence  
Red=Cloning site Green=Tags(s)

MDLIPNLAVETWLLLAVSLVLLYLYGTRTHGLFKRLGIPGPTPLPLLGNVLSYRQGLWKFDTECYKKGK  
MWGTYEGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGFMKSAISLAEDEEWKRIRLLSPTFTSG  
KLKEMFPIAQYGDVLRNLRREAEGKPVTLKDIFGAYSMDVITGTSFGVNIDSLNPNQDPFVESTKKF  
LKFGFLDPLFLSIIILFPFLTPVFEALNVSLFPKDTINFLSKSVNRMKKSRLNDKQKHLRDLFLQLMIDSQN  
SKETESHKALSDLELAAQSIIFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDAV  
VQMEYLDMMVNETLRLFPVAIRLERTCKKDVINGVFIPKGSMMVIPTYALHHPKYWTEPEEFRPERFS  
KKKDSIDPYIYTPFGTGPRNCIGMRFALMNMKLALIRVLQNFSPKCKETQIPLKLDTQGLLQPEKPIVL  
KVDSRDGTLSGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 56.9 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.

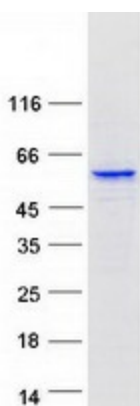
**Storage:** Store at -80°C.



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<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_000768</a>
<b>Locus ID:</b>	1577
<b>UniProt ID:</b>	<a href="#">P20815</a>
<b>RefSeq Size:</b>	1755
<b>Cytogenetics:</b>	7q22.1
<b>RefSeq ORF:</b>	1506
<b>Synonyms:</b>	CP35; CYP11A5; P450PCN3; PCN3
<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. The encoded protein metabolizes drugs as well as the steroid hormones testosterone and progesterone. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Two pseudogenes of this gene have been identified within this cluster on chromosome 7. Expression of this gene is widely variable among populations, and a single nucleotide polymorphism that affects transcript splicing has been associated with susceptibility to hypertension. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Linoleic acid metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism

### Product images:



Coomassie blue staining of purified CYP3A5 protein (Cat# TP307432). The protein was produced from HEK293T cells transfected with CYP3A5 cDNA clone (Cat# [RC207432]) using MegaTran 2.0 (Cat# [TT210002]).