

Product datasheet for **TP310170L**

Cytochrome P450 3A4 (CYP3A4) (NM_017460) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome P450, family 3, subfamily A, polypeptide 4 (CYP3A4), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210170 representing NM_017460 Red =Cloning site Green =Tags(s)

MALIPDLAMETWLLLAVSLVLLLYLYGTHSHGLFKKLGIPGPTPLPFLGNILSYHKGFCMFDMECHKKYGK
VWGFYDGGQPVLAITDPDMIKTVLVKECYSVFTNRRPFGPVGFMKSAISIAEDEEWKRLRSLLSPTFTSG
KLKEMVPIAQYGDVLRNLRREAETGKPVTLKDVFGAYSMDVITSTSFVGNIDSLNPNQDPFVENTKKL
LRFDFLDPFFLSITVFPFLIPILEVLNICVFPREVTNFLRKSVMKESRLEDTQKHRVDFLQLMIDSQN
SKETESHKALSDLELVAQSIIFIFAGYETTSSVLSFIMYELATHPDVQKQLQEEIDAVLPNKAPPTYDTV
LQMEYLDMMVNETLRLFPIAMRLERVCKKDVEINGMFIPKGVVMMIPSYALHRDPKYWTEPEKFLPERFS
KKNKDNIDPYIYTPFGSGPRNCIGMRFALMNMKLALIRVLQNFSPKCKETQIPLKLSLGGLLQPEKPVV
LKVESRDGTVSGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

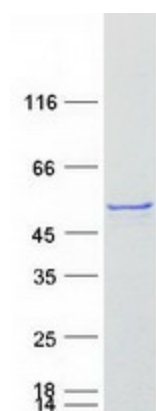
Tag:	C-Myc/DDK
Predicted MW:	57.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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_059488
Locus ID:	1576
UniProt ID:	P08684 , Q6GRK0
RefSeq Size:	2768
Cytogenetics:	7q22.1
RefSeq ORF:	1509
Synonyms:	CP33; CP34; CYP3A; CYP3A3; CYP11A3; CYP11A4; HLP; NF-25; P450C3; P450PCN1; VDDR3
Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs in use today, including acetaminophen, codeine, cyclosporin A, diazepam, erythromycin, and chloroquine. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2020]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, P450, Transmembrane
Protein Pathways:	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 CYP3A4 protein (Cat# [TP310170]). The protein was produced from HEK293T cells transfected with CYP3A4 cDNA clone (Cat# [RC210170]) using MegaTran 2.0 (Cat# [TT210002]).