

Recombinant Human CYP3A4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYP3A4-5369H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYP3A4 MS Standard C13 and N15-labeled recombinant protein (NP_059488) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 and erythromycin. 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.
Molecular Mass	57.2 kDa
AA Sequence	MALIPDLAMETWLLLA VSLVLLYLYGTHSHGLFKKLGIPGPTLPFLGNILSYHKGFC

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MFDMECHKKYGKVGWGFYDGQQPVLAITDPDPMIKTVLVKECYSVFTNRRPFGPVGF
 MKSAISIAEDEEWKRLRSLLSPTFTSGKLEKEMVPIIAQYGDVLRNLRREAETGKPV
 LKDVFGAYSMDVITSTSFGVNIDSLNNPQDPFVENTKKLLRFDFLDPFFLSITVFPFLI
 PILEVLNICVFPREVTNFLRKSVMKESRLEDTQKHRVDFLQLMIDSQNSKETESHK
 ALSDELVAQSIIFIFAGYETTSSVLSFIMYELATHPDVQQKLQEEIDAVLPNKAPPTYD
 TVLQMEYLDMMVNETLRLFPAMRLERVCKKDVEINGMFIPKGVVVMIPSYALHRDPK
 YWTEPEKFLPERFSKKNKDNIDPYIYTPFGSGPRNCIGMRFALMNMKLALIRVLQNF
 SFKPCKETQIPLKLSLGGLLQPEKPVVLKVESRDGTVSGATRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CYP3A4 cytochrome P450 family 3 subfamily A member 4 [Homo sapiens (human)]

Official Symbol CYP3A4

Synonyms CYP3A4; cytochrome P450, family 3, subfamily A, polypeptide 4; CYP3A3, cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 4; cytochrome P450 3A4; nifedipine oxidase; cytochrome P450 3A3; cytochrome P450 HLp; cytochrome P450-PCN1; cytochrome P450 NF-25; albendazole sulfoxidase; quinine

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3-monooxygenase; albendazole monooxygenase; P450-III, steroid inducible; glucocorticoid-inducible P450; taurochenodeoxycholate 6- α -hydroxylase; cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 3; cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 4; HLP; CP33; CP34; CYP3A; NF-25; CYP3A3; P450C3; CYP3A3; CYP3A4; P450PCN1; MGC126680;

Gene ID [1576](#)

mRNA Refseq [NM_017460](#)

Protein Refseq [NP_059488](#)

MIM [124010](#)

UniProt ID [P08684](#)

SDS-PAGE

