Recombinant Human CYP3A5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CYP3A5-3567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CYP3A5 MS Standard C13 and N15-labeled recombinant protein (NP_000768) 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 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 hypertensions. Alternative splicing results in multiple transcript variants.
Molecular Mass	57.1 kDa
AA Sequence	MDLIPNLAVETWLLLAVSLVLLYLYGTRTHGLFKRLGIPGPTPLPLLGNVLSYRQGLW KFDTECYKKYGKMWGTYEGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGFM KSAISLAEDEEWKRIRSLLSPTFTSGKLKEMFPIIAQYGDVLVRNLRREAEKGKPVTL

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	KDIFGAYSMDVITGTSFGVNIDSLNNPQDPFVESTKKFLKFGFLDPLFLSIILFPFLTPV FEALNVSLFPKDTINFLSKSVNRMKKSRLNDKQKHRLDFLQLMIDSQNSKETESHKA LSDLELAAQSIIFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDA VVQMEYLDMVVNETLRLFPVAIRLERTCKKDVEINGVFIPKGSMVVIPTYALHHDPKY WTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRNCIGMRFALMNMKLALIRVLQNFSFK PCKETQIPLKLDTQGLLQPEKPIVLKVDSRDGTLSGETRTRPLEQKLISEEDLAANDIL DYKDDDDKV
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	CYP3A5 cytochrome P450 family 3 subfamily A member 5 [Homo sapiens (human)]
Official Symbol	CYP3A5
Synonyms	CYP3A5; cytochrome P450, family 3, subfamily A, polypeptide 5; cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 5; cytochrome P450 3A5; CP35; P450PCN3; PCN3; cytochrome P-450; niphedipine oxidase; cytochrome P450 HLp2; cytochrome P450-PCN3; microsomal monooxygenase; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; CYPIIIA5; FLJ31317; DKFZp686L16231;

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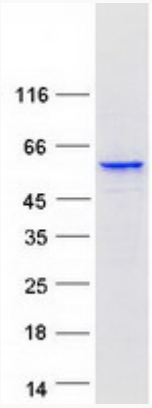
Gene ID	1577
mRNA Refseq	NM_000777
Protein Refseq	NP_000768
MIM	605325
UniProt ID	P20815
SDS-PAGE	

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