

Recombinant Full Length Human CYP3A5 Protein, GST-tagged

Cat. No. CYP3A5-2438HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP3A5 full-length ORF (AAH33862, 1 a.a. - 502 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	502 amino acids
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 hypertension. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]
Molecular Mass	80.96 kDa
AA Sequence	MDLIPNLAVETWLLAVSLVLLYLYGTRTHGLFKRLGIPGPTPLLLGNVLSYRQGLW KFDTECYKKYGKMWGTYEGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGFM KSAISLAEDEEWKRIRSLLSPTFTSGKLKEMFPPIAQYGDVLRNLRREAEGKGPVTL

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KDIFGAYSMDVITGTSFGVNIDSLNNPQDPFVESTKKFLKFGFLDPLFLSIILFPFLTPV
 FEALNVSLFPKDTINFLSKSVNRMKKSRINDKQKHRLDFLQLMIDSQNSKETESHKA
 LSDLELAAQSIIFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDA
 VVQMEYLDMMVNETLRLFPVAIRLERTCKKDVEINGVFIPKGSMMVVIPTYALHHPKY
 WTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRNCIGMRFALMNMKLALIRVLQNFSFK
 PCKETQIPLKLDLDTQGLLQPEKPIVLKVDSRDGTLSGE

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CYP3A5 cytochrome P450, family 3, subfamily A, polypeptide 5 [Homo sapiens]

Official Symbol

CYP3A5

Synonyms

CYP3A5; cytochrome P450, family 3, subfamily A, polypeptide 5; cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 5; cytochrome P450 3A5; CP35; P450PCN3; PCN3; cytochrome P-450; naphedipine oxidase; cytochrome P450 HLP2; cytochrome P450-PCN3; microsomal monooxygenase; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; CYP3A5; FLJ31317; DKFZp686L16231;

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

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