

Recombinant Full Length Human CYP3A5 Protein

Cat. No. CYP3A5-118HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cytochrome P450 3A5 with N terminal proprietary tag; Predicted MWt 80.96 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	502 amino acids
Description	This gene, CYP3A5, 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. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. The enzyme metabolizes drugs such as nifedipine and cyclosporine as well as the steroid hormones testosterone, progesterone and androstenedione. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. This cluster includes a pseudogene, CYP3A5P1, which is very similar to CYP3A5. This similarity has caused some difficulty in determining whether cloned sequences represent the gene or the pseudogene. Multiple alternatively spliced transcript variants have been identified for this gene.
Form	Liquid
Molecular Mass	80.960kDa inclusive of tags

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AA Sequence

MDLIPNLAVETWLLAVSLVLLYLYGTRTHGLFKRLGIPG PTPLPLLGNVLSYRQGLW
 KFDTECYKKYGKMWGTYEGQLP VLAITDPDVIRTVLVKECYSVFTNRRSLGPVGF
 KSAISL AEDEEWKRIRSLSPFTSGKLEMFPIAQYGDVLRNL RREAEGKGPVTL
 KDIFGAYSMDVITGTSFGVNIDSLNNPQ DPFVESTKKFLKFGFLDPLFLSIILFPFLTPV
 FEALNVSL FPKDTINFLSKSVNRMKKSRLNDKQKHRLDFLQLMIDSQN SKETESHK
 ALSDLELAAQSIIFIFAGYETTSSVLSFTLYE LATHPDVQQKLQKEIDAVLPNKAPPTY
 DAVVQMEYLDMMV NETLRLFPVAIRLERTCKKDVEINGVFIPKGSMMVVIPTYA LHHD
 PKYWTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRN CIGMRFALNMNKLALIRVLQN
 FSKPCKETQIPLKLDQTG LLQPEKPIVLKVDSRDGTLSGE

Purity

Proprietary Purification

Storage

Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer

pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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 (nephedipine oxidase), polypeptide 5; cytochrome P450 3A5; CP35; P450PCN3; PCN3

Gene ID

1577

mRNA Refseq

NM_000777

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Protein Refseq	NP_000768
MIM	605325
UniProt ID	P20815

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