

Recombinant Human CYP3A5 protein, MYC/DDK-tagged

Cat. No. CYP3A5-12H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CYP3A5 fused with MYC/DDK tag at C-terminal was expressed in HEK293.

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 hypertension. Alternative splicing results in multiple transcript variants.

Form 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass 56.9 kDa

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

Concentration >50 ug/mL as determined by microplate BCA method

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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 (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; CYP3A5; FLJ31317; DKFZp686L16231;

Gene ID 1577

mRNA Refseq NM_000777

Protein Refseq NP_000768

MIM 605325

UniProt ID P20815

Chromosome Location 7q21.1

Pathway Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Irinotecan Pathway, organism-

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specific biosystem;

Function

aromatase activity; electron carrier activity; heme binding; metal ion binding;
monooxygenase activity; oxidoreductase activity; oxygen binding;

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