

Recombinant Human CYP3A5 Protein, GST-tagged

Cat. No. CYP3A5-2276H **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 | Wheat Germ |
| Description | <p>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]</p> |
| Molecular Mass | 80.96 kDa |
| AA Sequence | <p>MDLIPNLAVETWLLLAVSLVLLYLYGTRTHGLFKRLGIPGPTPLLLGNVLSYRQGLW KFDTECYKKYGKMWGTYEGQLPVLAITDPDVIRTVLVKECYSVFTNRRSLGPVGF KSAISLAEDEEWKRIRSLLSPTFTSGKLKEMFPIAQYGDVLRNLRREAEGKGPVTL KDIFGAYSMDVITGTSFGVNIDSLNNPQDPFVESTKKFLKFGFLDPLFLSILFPFLTPV</p> |

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FEALNVSLFPKDTINFLSKSVNRMKKSRLNDKQKHRDLDFLQLMIDSQNSKETESHKA
 LSDLELAAQSIIFIFAGYETTSSVLSFTLYELATHPDVQQKLQKEIDAVLPNKAPPTYDA
 VVQMEYLDMMVNETLRLFPVAIRLERTCKKDVEINGVFIPKGSMMVVIPTYALHHDPKY
 WTEPEEFRPERFSKKKDSIDPYIYTPFGTGPRNCIGMRFALMNMKLALIRVLQNFSEK
 PCKETQIPLKLDLDTQGLLQPEKPIVLKVDSRDGTLSE

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 (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; CYP11IA5; FLJ31317; DKFZp686L16231;

Gene ID
 1577

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mRNA Refseq [NM_000777](#)

Protein Refseq [NP_000768](#)

MIM [605325](#)

UniProt ID [P20815](#)

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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