Recombinant Human CYP2A6 Protein

Cat. No. CYP2A6-71H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CYP2A6 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene, CYP2A6, 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 phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals. Individuals with certain allelic variants are said to have a poor metabolizer phenotype, meaning they do not efficiently metabolize coumarin or nicotine. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. The gene was formerly referred to as CYP2A3; however, it has been renamed CYP2A6.

GENE INFORMATION

Gene Name	CYP2A6 cytochrome P450 family 2 subfamily A member 6 [Homo sapiens (human)]
Official Symbol	CYP2A6
Synonyms	CYP2A6; cytochrome P450 family 2 subfamily A member 6; CPA6; CYP2A; CYP2A3;

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	P450PB; CYPIIA6; P450C2A; cytochrome P450 2A6; 1,4-cineole 2-exo-monooxygenase; coumarin 7-hydroxylase; cytochrome P450 IIA3; cytochrome P450(I); cytochrome P450, family 2, subfamily A, polypeptide 6; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6; flavoprotein-linked monooxygenase; xenobiotic monooxygenase
Gene ID	1548
mRNA Refseq	NM_000762
Protein Refseq	NP_000753
MIM	122720
UniProt ID	P11509

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