

Recombinant Human CYP2A6 Protein, Flag-tagged

Cat. No. CYP2A6-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the full-length sequence of Homo sapiens cytochrome P450 family 2 subfamily A member 6 (CYP2A6) (NM_000762), with a DYKDDDDK tag was expressed in Human Cells.
Species	Human
Source	Human Cells
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.
Molecular Mass	56.3 kDa
Endotoxin	Endotoxin level is < 0.1 ng/μg of protein (<1EU /μg)
Purity	> 90% by SDS-PAGE gel and Coomassie Blue staining

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Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!
Storage Buffer	Purified protein formulated in a sterile solution of TBS buffer, pH7.4, without any preservatives
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; P450PB; CYP11A6; 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; EC 1.14.14.1
Gene ID	1548
mRNA Refseq	NM_000762
Protein Refseq	NP_000753
MIM	122720
UniProt ID	P11509