

Recombinant Human CYP2A6 Protein, GST-tagged

Cat. No. CYP2A6-2258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP2A6 partial ORF (AAH28215, 395 a.a. - 494 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jul 2008]
Molecular Mass	36.74 kDa
AA Sequence	LGSVLRDPSFFSNPQDFNPQHFLNEKGQFKKSDAFVPFSIGKRNCFGEGGLARMELFLFFTVMQNFRLKSSQSPKDIDVSPKHVGFATIPRNYTMSFLPR
Applications	Enzyme-linked Immunoabsorbent Assay

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	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	CYP2A6 cytochrome P450, family 2, subfamily A, polypeptide 6 [Homo sapiens]
Official Symbol	CYP2A6
Synonyms	CYP2A6; cytochrome P450, family 2, subfamily A, polypeptide 6; CYP2A3, cytochrome P450, subfamily IIA (phenobarbital inducible), polypeptide 6; cytochrome P450 2A6; CPA6; CYP2A; cytochrome P450(I); cytochrome P450 IIA3; coumarin 7-hydroxylase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6; CYP2A3; P450PB; CYP2A6; P450C2A;
Gene ID	1548
mRNA Refseq	NM_000762
Protein Refseq	NP_000753
MIM	122720

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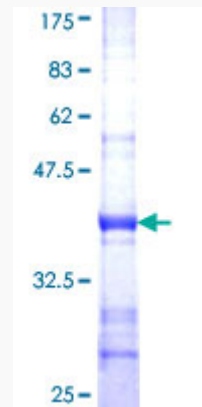
 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

P11509

Quality Control

Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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