

Recombinant Human CYP2B6

Cat. No. CYP2B6-28193TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant full length Human Cytochrome P450 2B6 with an N terminal proprietary tag; Predicted MWt 80.08 kDa.

Species Human

Source Wheat Germ

ProteinLength 491 amino acids

Description This gene, CYP2B6, 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 metabolize some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosphamide. Transcript variants for this gene have been described; however, it has not been resolved whether these transcripts are in fact produced by this gene or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q.

Molecular Weight 80.080kDa inclusive of tags

Tissue specificity Expressed in liver, lung and heart right ventricle.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MELSVLLFLALLTGLLLLLVQRHPNTHDRLPPGPRPLPLL GNLLQMDRRGLLKSFLR FREKYGDVFTVHLGPRPVVMLCG VEAIREALVDKAEAFSGRGKIAMVDPFFRGYGV IFANGNR WKVLRRFVSTTMRDFGMGKRSVEERIQEEAQCLIEELRKS KGALMDPTF LFQSITANIICSIVFGKRFHYQDQEFLKMLN LFYQTFSLISSVFGQLFELFSGFLTYFP GAHRQVYKNLQE INAYIGHSVEKHRETLDPSAPKDLIDTYLLHMEEEEKSNH SEFS HQNLNLNTLSLFFAGTETTSTTLRYGFLMLKYPHV AERVYREIEQVIGPHRPELH DRAKMPYTEAVIYEIQRFSDLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPH YFEKPDANPDHFLDANGALKKTEAFIPFSLGKRICLGEG IARAELFFFTTILQNFMS ASPVAPEDIDLTPQECGVGKI PPTYQIRFLPR
Sequence Similarities	Belongs to the cytochrome P450 family.
GENE INFORMATION	
Gene Name	CYP2B6 cytochrome P450, family 2, subfamily B, polypeptide 6 [Homo sapiens]
Official Symbol	CYP2B6
Synonyms	CYP2B6; cytochrome P450, family 2, subfamily B, polypeptide 6; CYP2B, cytochrome P450, family 2, subfamily B , cytochrome P450, subfamily IIB (phenobarbital inducible) , cytochrome P450, subfamily IIB (phenobarbital inducible), polypeptide 6;

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	cytochrom
Gene ID	1555
mRNA Refseq	NM_000767
Protein Refseq	NP_000758
MIM	123930
Uniprot ID	P20813
Chromosome Location	19q13.2
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity;

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