

## Recombinant Human CYP2B6 protein, GST-tagged

Cat. No. CYP2B6-17H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human CYP2B6(1 a.a. - 491 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.

**Species** Human

**Source** Wheat Germ

**ProteinLength** 1 a.a. - 491 a.a.

**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.

**Form** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Molecular Mass** 82.7 kDa

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**AA Sequence**

MELSVLLFLALLTGLLLLLVQRHPNTHDRLPPGPRPLPLLGNLLQMDRRGLLKSFLRF  
 REKYGDVFTVHLGPRPVVMLCGVEAIREALVDKAEAFSGRGKIAMVDPFFRGGYGVIF  
 ANGNRWKVLRRFSVTTMRDFGMGKRSVEERIQEEAQCLIEELRKS KGALMDPTFLF  
 QSITANIICSIVFGKRFHYQDQEFLKMLNLFYQTFSLISSVFGQLFELFSGFLTYFPGA  
 HRQVYKNLQEINAYIGHSVEKHRETLDPSAPKDLIDTYLLHMEEESNAHSEFSHQN  
 LNLNTLSLFFAGTETTSTTLRYGFLMLKYPHVAERVYREIEQVIGPHRPPPELHDRAK  
 MPYTEAVIYEIQRFSDLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPHYFEKP  
 DAFNPDHFLDANGALKKTEAFIPFSLGKRICLGEGIARAELFLFFTTILQNFSMASPVA  
 PEDIDLTPQECGVGKIPPTYQIRFLPR

**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.

**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; cytochrome P450 2B6; CPB6; CYP2B6; cytochrome P450 IIB1; cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6; EFVM; IIB1; P450; CYP2B; CYP2B7; CYP2B7P;

**Gene ID**

1555

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<b>mRNA Refseq</b>	NM_000767
<b>Protein Refseq</b>	NP_000758
<b>MIM</b>	123930
<b>UniProt ID</b>	P20813
<b>Chromosome Location</b>	19q13.2
<b>Pathway</b>	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; Drug metabolism - cytochrome P450, conserved biosystem; Metabolic pathways, organism-specific biosystem;
<b>Function</b>	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity;
	

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