

## Recombinant Human CYP2B6 protein, MYC/DDK-tagged

Cat. No. CYP2B6-16H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CYP2B6 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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 ifosfamide. 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.</p>
<b>Form</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	56.1 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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**Notes** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Concentration** >50 ug/mL as determined by microplate BCA method

## 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

**mRNA Refseq** NM\_000767

**Protein Refseq** NP\_000758

**MIM** 123930

**UniProt ID** P20813

**Chromosome Location** 19q13.2

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**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; Drug metabolism - cytochrome P450, conserved biosystem; Metabolic pathways, organism-specific biosystem;

**Function**

aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity;



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