

# Recombinant Human CYP2B6 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CYP2B6-4861H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

CYP2B6 MS Standard C13 and N15-labeled recombinant protein (NP\_000758) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### 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 Mass

56.1 kDa

### AA Sequence

MELSVLLFLALLTGLLLLLVQCHPNTHDRLPPGPRPLPLLGNLLQMDRRGLLKSFLRF  
REKYGDVFTVHLGPRPVVMLCGVEAIREALVDKAEAFSGRGKIAMVDPFFRGYGVIF

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ANGNRWKVLRFRFSVTTMRDFGMGKRSVEERIQEEAQCLIEELRKS KGALMDPTFLF  
 QSITANIICSIVFGKRFHYQDQEFLKMLNLFYQTFSLISSVFGQLFELFSGFLKYFPGA  
 HRQVYKNLQEINAYIGHSVEKHRETLDPSAPKDLIDTYLLHMEKEKSNAHSEFSHQN  
 LNLNTLSLFFAGTETTSTTLRYGFLMLKYPHVAERVYREIEQVIGPHRPPPELHDRAK  
 MPYTEAVIYEIQRFSDLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPHYFEKP  
 DAFNPDHFLDANGALKKTEAFIPFSLGKRICLGEGIARAELFLFFTTILQNFSMASPVA  
 PEDIDLTPQECGVGKIPPTYQIRFLPRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** CYP2B6 cytochrome P450 family 2 subfamily B member 6 [ Homo sapiens (human) ]

**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; CYPIIB6; cytochrome P450 IIB1; cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6; EFVM; IIB1; P450; CYP2B; CYP2B7; CYP2B7P;

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**Gene ID** 1555

**mRNA Refseq** NM\_000767

**Protein Refseq** NP\_000758

**MIM** 123930

**UniProt ID** P20813

**SDS-PAGE**



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