

Recombinant Full Length Human CYP2B6 Protein

Cat. No. CYP2B6-108HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	80.080kDa inclusive of tags

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AA Sequence

MELSVLLFLALLTGLLLLLVQRHPNTHDRLPPGPRPLPLL GNLLQMDRRGLLKSFLR
FREKYGDVFTVHLGPRPVVMLCG VEAIREALVDKAEAFSGRGKIAMVDPFFRGYGV
IFANGNR WKVLRRFSVTTMRDFGMGKRSVEERIQEEAQCLIEELRKS KGALMDPTF
LFQSITANIICSIVFGKRFHYQDQEFLKMLN LFYQTFSLISSVFGQLFELFSGFLTYFP
GAHRQVYKNLQE INAYIGHSVEKHRETLDPSAPKDLIDTYLLHMEEKSNAH SEFS
HQNLNLNTLSLFFAGTETTSTTLRYGFLMLKYPHV AERVYREIEQVIGPHRPPELH
DRAKMPYTEAVIYEIQRFS DLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPH
YFEKPDAPNPDHFLDANGALKKTEAFIPFSLGKRICLGEG IARAEFLFFTILQNFSM
ASPVAPEDIDLTPQECGVGKI PPTYQIRFLPR

Purity

Proprietary Purification

Storage

Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer

pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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; cytochrom

Gene ID

1555

mRNA Refseq

NM_000767

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Protein Refseq	NP_000758
MIM	123930
UniProt ID	P20813

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