

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	<p>MELSVLLFLALLTGLLLLLVQRHPNTHDRLPPGPRPLPLL GNLLQMDRRGLLKSFLR FREKYGDVFTVHLGPRPVVMLCG VEAIREALVDKAEAFSGRGKIAMVDPFFRGYGV IFANGNR WKVLRRFVSTTMRDFGMGKRSVEERIQEEAQCLIEELRKS KGALMDPTF LFQSITANIICSIVFGKRFHYQDQEFLKMLN LFYQTFSLISSVFGQLFELFSGFLTYFP GAHRQVYKNLQE INAYIGHSVEKHRETLDPSAPKDLIDTYLLHMEEEEKSNAH SEFS HQNLNLNTLSLFFAGTETTSTTLRYGFLMLKYPHV AERVYREIEQVIGPHRPPPELH DRAKMPYTEAVIYEIQRFS DLLPMGVPHIVTQHTSFRGYIIPKDTEVFLILSTALHDPH YFEKPDANPDHFLDANGALKKTEAFIPFSLGKRICLGE IARAEFLFFTTILQNFSM ASPVAPEDIDLTPQECGVGKI PPTYQIRFLPR</p>
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



Protein Refseq NP_000758

MIM 123930

UniProt ID P20813

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