

Recombinant Full Length Human CYP2B6 Protein, GST-tagged

Cat. No. CYP2B6-711HF **Lot. No.** (See product label)

SPECIFICATION

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

MELSVLLFLA LLTGLLLLLV QRHPNTHDRL PPGPRPLPLL GNLLQMDRRG
 LLKSFLRFRE KYGDVFTVHL GPRPVVMLCG VEAIREALVD KAEAFSGRGK
 IAMVDPFFRG YGVIFANGNR WKVLRRFSVT TMRDFGMGKR SVEERIQEEA
 QCLIEELRKS KGALMDPTFL FQSITANIIC SIVFGKRFHY QDQEFLKMLN
 LFYQTFSLIS SVFGQLFELF SGFLTYFPGA HRQVYKNLQE INAYIGHSVE
 KHRETLDPSE PKDLIDTYLL HMEEEKSNAH SEFSHQNLNL NTLSLFFAGT
 ETTSTTLRYG FLLMLKYPHV AERVYREIEQ VIGPHRPPPEL HDRAKMPYTE
 AVIYEIQRFS DLLPMGVPHI VTQHTSFRGY IIPKDTEVFL ILSTALHDPH
 YFEKPDANFP DHFLDANGAL KKTEAFIPFS LGKRICLGEG IARAELFLFF
 TTILQNFSMA SPVAPEDIDL TPQECGVGKI PPTYQIRFLP R

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

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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mRNA Refseq	NM_000767
Protein Refseq	NP_000758
MIM	123930
UniProt ID	P20813

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