

Recombinant Human CYP2B6

Cat. No. CYP2B6-231H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP2B6 is baculovirus-insect cell expressed with supplemental cDNA expressed human reductase and human cytochrome b5.
Species	Human
Source	Insect Cells
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; Frozen
Available size	0.5 nmole P450 in 0.5 ml
Representative	7.8 mg/ml

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totalprotein concentration	
Representative P450concentration	130 pmole/mg
Representativecytochrome b5 concentration	280 pmole/mg
Representativecatalytic assay	7-ethoxy-4-trifluoromethylcoumarin deethylase activity, 1,400 pmol/(mg x min), 11 pmol/pmolP450/min
Storage	-80°C
OfficialSymbol	CYP2B6

GENE INFORMATION

Gene Name	CYP2B6 cytochrome P450, family 2, subfamily B, polypeptide 6 [Homo sapiens]
Synonyms	CYP2B6; CPB6; EFVM; IIB1; P450; CYP2B; CYP2B7; CYP2B7P; CYP2B6; cytochrome P450, family 2, subfamily B, polypeptide 6; cytochrome P450 2B6; cytochrome P450 IIB1; 1,4-cineole 2-exo-monooxygenase; cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6; EC 1.14.14.1
Gene ID	1555
mRNA Refseq	NM_000767
Protein Refseq	NP_000758
MIM	123930

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UniProt ID	P20813
Chromosome Location	19q13.2
Pathway	Arachidonic acid metabolism; Biological oxidations; Cytochrome P450 - arranged by substrate type; Drug metabolism - cytochrome P450
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity

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