# Recombinant Human CYP2B6

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

## SPECIFICATION

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| **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

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| **Gene Name** | CYP2B6 cytochrome P450, family 2, subfamily B, polypeptide 6 [ Homo sapiens ] |
| **Synonyms** | CYP2B6; CPB6; EFVM; IIB1; P450; CYP2B; CYP2B7; CYP2B7P; CYPIIB6; 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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