

Recombinant Human CYP2E1

Cat. No. CYP2E1-450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Baculovirus-insect cell expressed with supplemental cDNA expressed reductase and cytochrome b5.
Species	Human
Source	Insect Cells
Description	This gene 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 is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer.
Form	Liquid; Frozen
Available size	1.0 nmole P450 in 0.5 ml
Representative totalprotein concentration	4.0 mg/ml

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Representative P450content	490 pmole/mg
Catalytic assay	p-Nirophenol hydroxylase
Representativecatalytic assay	6,500 pmole/(mg x min)
Storage	–80°C
OfficialSymbol	CYP2E1

GENE INFORMATION

Gene Name	CYP2E1 cytochrome P450, family 2, subfamily E, polypeptide 1 [Homo sapiens]
Synonyms	cytochrome P450, family 2, subfamily E, polypeptide 1; CPE1; CYP2E; P450-J; P450C2E; CYP2E1; cytochrome P450 2E1; CYP1IE1; cytochrome P450-J; microsomal monooxygenase; xenobiotic monooxygenase; 4-nitrophenol 2-hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1; EC 1.14.13.-,EC 1.14.13.n7
Gene ID	1571
mRNA Refseq	NM_000773
Protein Refseq	NP_000764
MIM	124040
UniProt ID	P05181

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Chromosome Location	10q26.3
Pathway	Arachidonic acid metabolism; Drug metabolism - cytochrome P450; Linoleic acid metabolism; Metabolic pathways; Metabolism of xenobiotics by cytochrome P450; Biological oxidations
Function	electron carrier activity; enzyme binding; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity; oxygen binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, NADH or NADPH as one donor, and incorporation of one atom of oxygen; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen
Rendering based on PDB 3E4E.	