Active Recombinant Human CYP1B1

Cat. No. CYP1B1-552H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cytochrome P450 1B1 Isozyme Microsomes, with P450 Reductase was expressed in baculovirus infected insect cells. Microsomes containing human CYP1B1 and recombinant human NADPH-P450 reductase.
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. The enzyme encoded by this gene localizes to the endoplasmic reticulum and metabolizes procarcinogens such as polycyclic aromatic hydrocarbons and 17beta-estradiol. Mutations in this gene have been associated with primary congenital glaucoma; therefore it is thought that the enzyme also metabolizes a signaling molecule involved in eye development, possibly a steroid.
Form	Solution in 100 mM potassium phosphate buffer, pH 7.4.
Bio-activity	Tested for the ability to catalyze the 7-deethylation of ethoxyresorufin.
Storage	?70°C

GENE INFORMATION

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Gene Name	CYP1B1 cytochrome P450, family 1, subfamily B, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP1B1
Synonyms	CYP1B1; CP1B; GLC3A; CYPIB1; P4501B1; cytochrome P450, family 1, subfamily B, polypeptide 1; cytochrome P450 1B1; microsomal monooxygenase; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile); NP_000095.2; EC 1.14.14.1
Gene ID	1545
mRNA Refseq	NM_000104
Protein Refseq	NP_000095
MIM	601771
UniProt ID	Q16678.
Chromosome Location	2p22.2
Pathway	AhR pathway; Benzo(a)pyrene metabolism; Chemical carcinogenesis
Function	aromatase activity; heme binding; iron ion binding

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