

## Active Recombinant Human CYP1B1

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	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.
<b>Form</b>	Solution in 100 mM potassium phosphate buffer, pH 7.4.
<b>Bio-activity</b>	Tested for the ability to catalyze the 7-deethylation of ethoxyresorufin.
<b>Storage</b>	-70°C

### GENE INFORMATION

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<b>Gene Name</b>	CYP1B1 cytochrome P450, family 1, subfamily B, polypeptide 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CYP1B1
<b>Synonyms</b>	CYP1B1; CP1B; GLC3A; CYP1B1; 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
<b>Gene ID</b>	1545
<b>mRNA Refseq</b>	NM_000104
<b>Protein Refseq</b>	NP_000095
<b>MIM</b>	601771
<b>UniProt ID</b>	Q16678.
<b>Chromosome Location</b>	2p22.2
<b>Pathway</b>	AhR pathway; Benzo(a)pyrene metabolism; Chemical carcinogenesis
<b>Function</b>	aromatase activity; heme binding; iron ion binding

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