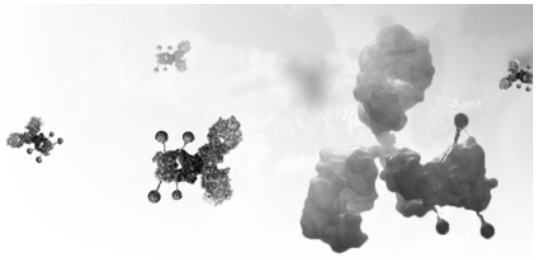

Human CYP1B1 peptide (DAG-P0373)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jul 2008]
Specificity	Expressed in many tissues.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the cytochrome P450 family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	CYP1B1 cytochrome P450, family 1, subfamily B, polypeptide 1 [Homo sapiens (human)]
Official Symbol	CYP1B1
Synonyms	CYP1B1; cytochrome P450, family 1, subfamily B, polypeptide 1; CP1B; GLC3A; CYPIB1; P4501B1; cytochrome P450 1B1; microsomal monooxygenase; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450,

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	subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile);
Entrez Gene ID	1545
mRNA Refseq	NM_000104.3
Protein Refseq	NP_000095.2
UniProt ID	Q16678
Chromosome Location	2p22.2
Pathway	AhR pathway, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Benzo(a)pyrene metabolism, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Chemical carcinogenesis, organism-specific biosystem; Chemical carcinogenesis, conserved biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Endogenous sterols, organism-specific biosystem; Estrogen metabolism, organism-specific biosystem; Metabolism, organi
Function	aromatase activity; heme binding; heme binding; iron ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation

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