

Recombinant Human CYP1A1

Cat. No. CYP1A1-550H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cytochrome P450 1A1 Isozyme Microsomes, with P450 Reductase was expressed in baculovirus infected insect cells. Microsomes containing human CYP1A1 and recombinant human NADPH-P450 reductase.
Species	Human
Source	Insect Cells
Description	This gene, CYP1A1, 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 some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15.
Form	Solution in 100 mM potassium phosphate buffer, pH 7.4.
Storage	-70°C

GENE INFORMATION

Gene Name	CYP1A1 cytochrome P450, family 1, subfamily A, polypeptide 1 [Homo sapiens
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	(human)]
Official Symbol	CYP1A1
Synonyms	CYP1A1; AHH; AHRR; CP11; CYP1; P1-450; P450-C; P450DX; cytochrome P450, family 1, subfamily A, polypeptide 1; cytochrome P450 1A1; CYPIA1; cytochrome P450-C; cytochrome P450-P1; cytochrome P450 form 6; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; cytochrome P1-450, dioxin-inducible; cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1; NP_000490.1; EC 1.14.14.1
Gene ID	1543
mRNA Refseq	NM_000499
Protein Refseq	NP_000490
MIM	108330
UniProt ID	P04798
Chromosome Location	15q24.1
Pathway	AhR pathway; Benzo(a)pyrene metabolism; Chemical carcinogenesis
Function	aromatase activity; heme binding; iron ion binding