

Active Recombinant Human CYP2J2 Protein

Cat. No. CYP2J2-47H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CYP2J2 and human CYP-reductase without tag was coexpressed in Escherichia coli. Amount: 0.5 nmol cytochrome P450
Species	Human
Source	E.coli
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 thought to be the predominant enzyme responsible for epoxidation of endogenous arachidonic acid in cardiac tissue. Multiple transcript variants have been found for this gene.
Bio-activity	Cytochrome c Reductase Activity: 353 nmol/min/mg protein P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase]) Activity: Terfenadine C-hydroxylase Linear with time up to: 15 min(Determined at 1 μM substrate, using a P450 concentration of 0.125 pmol/ml) Linear with P450 up to: 0.4 pmol/ml(Determined at 1 μM substrate, using an incubation

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	time of 5 min) Vmax: 33 pmol/min/pmol CYP Km: 0.02 μ M
Usage	For laboratory (research) purposes only.
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 1.0 nmol/ml Protein Concentration: 10.0 mg/ml Specific P450 Content: 100 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	CYP2J2 cytochrome P450 family 2 subfamily J member 2 [Homo sapiens (human)]
Official Symbol	CYP2J2
Synonyms	CYP2J2; cytochrome P450 family 2 subfamily J member 2; CPJ2; CYP11J2; cytochrome P450 2J2; albendazole monooxygenase (hydroxylating); albendazole monooxygenase (sulfoxide-forming); arachidonic acid epoxygenase; cytochrome P450, family 2, subfamily J, polypeptide 2; cytochrome P450, subfamily 11J (arachidonic acid epoxygenase) polypeptide 2; flavoprotein-linked monooxygenase; hydroperoxy icosatetraenoate isomerase; microsomal monooxygenase; EC 1.14.14.73; EC 1.14.14.74; EC 5.4.4.7
Gene ID	1573
mRNA Refseq	NM_000775

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Protein Refseq	NP_000766
MIM	601258
UniProt ID	P51589

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