



# Human CYP2J2 peptide (DAG-P0293)

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

## PRODUCT INFORMATION

<b>Antigen 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. 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. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Highly expressed in heart, present at lower levels in liver, ileum, jejunum, colon, and kidney.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the cytochrome P450 family.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">CYP2J2 cytochrome P450, family 2, subfamily J, polypeptide 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CYP2J2
<b>Synonyms</b>	CYP2J2; cytochrome P450, family 2, subfamily J, polypeptide 2; CPJ2; cytochrome P450 2J2; CYP11J2; microsomal monooxygenase; arachidonic acid epoxigenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily I1J (arachidonic acid epoxigenase) polypeptide 2;

<b>Entrez Gene ID</b>	<a href="#">1573</a>
<b>mRNA Refseq</b>	<a href="#">NM_000775.2</a>
<b>Protein Refseq</b>	<a href="#">NP_000766.2</a>
<b>UniProt ID</b>	P51589
<b>Chromosome Location</b>	1p31.3-p31.2
<b>Pathway</b>	Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Fatty acids, organism-specific biosystem; Inflammatory mediator regulation of TRP channels, organism-specific biosystem; Inflammator
<b>Function</b>	arachidonic acid 11,12-epoxygenase activity; arachidonic acid 14,15-epoxygenase activity; arachidonic acid epoxygenase activity; aromatase activity; heme binding; iron ion binding; linoleic acid epoxygenase activity;