

Active Recombinant Human CYP4F2

Cat. No. CYP4F2-555H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Cytochrome P450 4F2 isozyme microsomes, with P450 Reductase and cytochrome b5 was expressed in baculovirus infected insect cells.
Species	Human
Source	Insect Cells
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. The enzyme starts the process of inactivating and degrading leukotriene B4, a potent mediator of inflammation. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F11, is approximately 16 kb away.
Form	Solution in 100 mM potassium phosphate buffer, pH 7.4.
Bio-activity	The CYP4F2 isoform catalyzes the 20-hydroxylation of leukotriene B4.
Storage	-70°C

GENE INFORMATION

Gene Name	CYP4F2 cytochrome P450, family 4, subfamily F, polypeptide 2 [Homo sapiens (human)]
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Official Symbol	CYP4F2
Synonyms	CYP4F2; CPF2; cytochrome P450, family 4, subfamily F, polypeptide 2; leukotriene-B(4) omega-hydroxylase 1; CYP4F2; cytochrome P450 4F2; cytochrome P450-LTB-omega; leukotriene-B4 20-monooxygenase; leukotriene B4 omega-hydroxylase; leukotriene-B(4) 20-monooxygenase 1; cytochrome P450, subfamily IVF, polypeptide 2; NP_001073.3; EC 1.14.13.30
Gene ID	8529
mRNA Refseq	NM_001082
Protein Refseq	NP_001073
MIM	604426
UniProt ID	P78329
Chromosome Location	19p13.12
Pathway	Arachidonic acid metabolism; Biological oxidations; Miscellaneous substrates
Function	alkane 1-monooxygenase activity; alpha-tocopherol omega-hydroxylase activity; heme binding