

Recombinant Human CYP4F3

Cat. No. CYP4F3-28191TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human CYP4F3 with N terminal proprietary tag. Predicted MW 36.52 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	<p>This gene, CYP4F3, 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, CYP4F8, is approximately 18 kb away. Three transcript variants encoding two different isoforms have been found for this gene.</p>
Molecular Weight	36.520kDa inclusive of tags
Tissue specificity	Expressed in the polymorphonuclear leukocytes as well as leukocytes.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	RIFHPTYIKPVLFAPAAIVPKDKVFYSFLKPWLGDGLLLSAGEKWSRHRRLTPAFHF NILKPYMKIFNESVNIMHAKWQLLASEGSARLDMFEHISLM
Sequence Similarities	Belongs to the cytochrome P450 family.

GENE INFORMATION

Gene Name	CYP4F3 cytochrome P450, family 4, subfamily F, polypeptide 3 [Homo sapiens]
Official Symbol	CYP4F3
Synonyms	CYP4F3; cytochrome P450, family 4, subfamily F, polypeptide 3; cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase) , LTB4H; leukotriene-B(4) omega-hydroxylase 2; CYP4F;
Gene ID	4051
mRNA Refseq	NM_000896
Protein Refseq	NP_000887
MIM	601270
Uniprot ID	Q08477

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**Chromosome
Location**

19p13.2

Pathway

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; Eicosanoids, organism-specific biosystem;

Function

electron carrier activity; heme binding; leukotriene-B4 20-monooxygenase activity; metal ion binding; monooxygenase activity;

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