

Recombinant Human CYP4A11, GST-tagged

Cat. No. CYP4A11-11787H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP4A11 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-215a.a.
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 hydroxylates medium-chain fatty acids such as laurate and myristate.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	CYP4A11 cytochrome P450, family 4, subfamily A, polypeptide 11 [Homo sapiens]
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Official Symbol	CYP4A11
Synonyms	CYP4A11; cytochrome P450, family 4, subfamily A, polypeptide 11; CYP4A2, cytochrome P450, subfamily IVA, polypeptide 11; cytochrome P450 4A11; CYP4A11; CYP4A11; P450HL-omega; 20-HETE synthase; alkane-1 monooxygenase; cytochrome P450HL-omega; cytochrome P-450HK-omega; fatty acid omega-hydroxylase; lauric acid omega-hydroxylase; 20-hydroxyeicosatetraenoic acid synthase; cytochrome P450, subfamily IVA, polypeptide 11; CP4Y; CYP4A2;
Gene ID	1579
mRNA Refseq	NM_000778
Protein Refseq	NP_000769
MIM	601310
UniProt ID	Q02928
Chromosome Location	1p33
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; Fatty Acid Omega Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem;
Function	alkane 1-monooxygenase activity; arachidonic acid epoxygenase activity; arachidonic acid omega-hydroxylase activity; electron carrier activity; heme binding; leukotriene-

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B4 20-monooxygenase activity; metal ion binding; monooxygenase activity;
oxidoreducta