

## 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<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 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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<b>Official Symbol</b>	CYP4A11
<b>Synonyms</b>	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;
<b>Gene ID</b>	1579
<b>mRNA Refseq</b>	NM_000778
<b>Protein Refseq</b>	NP_000769
<b>MIM</b>	601310
<b>UniProt ID</b>	Q02928
<b>Chromosome Location</b>	1p33
<b>Pathway</b>	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;
<b>Function</b>	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

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