

Active Recombinant Human CYP4A11 Protein

Cat. No. CYP4A11-73H Lot. No. (See product label)

SPECIFICATION

Product Overview	<p>Recombinant human CYP4A11 and human CYP-reductase without tag was coexpressed in Escherichia coli.</p> <p>Amount: 0.5 nmol cytochrome P450</p>
Species	Human
Source	E.coli
Description	<p>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. Multiple transcript variants have been found for this gene.</p>
Bio-activity	<p>Cytochrome c Reductase Activity: 232 nmol/min/mg protein</p> <p>P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM Tris-HCl buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase])</p> <p>Activity: Lauric acid 12-hydroxylase</p> <p>Linear with time up to: 10 min(Determined at 10 μM substrate, using a P450 concentration of 10 pmol/ml)</p> <p>Linear with P450 up to: 16 pmol/ml(Determined at 10 μM substrate, using an</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



	incubation time of 5 min) Vmax: 9.6 pmol/min/pmol CYP Km: 1.0 μ M
Usage	For laboratory (research) purposes only.
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 1.0 nmol/ml Protein Concentration: 10.0 mg/ml Specific P450 Content: 100 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	CYP4A11 cytochrome P450 family 4 subfamily A member 11 [Homo sapiens (human)]
Official Symbol	CYP4A11
Synonyms	CYP4A11; cytochrome P450 family 4 subfamily A member 11; CP4Y; CYP4A2; CYP4A11; CYP4A11; cytochrome P450 4A11; 20-HETE synthase; 20-hydroxyeicosatetraenoic acid synthase; P450HL-omega; alkane-1 monooxygenase; cytochrome P-450HK-omega; cytochrome P450, family 4, subfamily A, polypeptide 11; cytochrome P450, subfamily IVA, polypeptide 11; cytochrome P450HL-omega; fatty acid omega-hydroxylase; lauric acid omega-hydroxylase; long-chain fatty acid omega-monooxygenase; EC 1.14.14.1; EC 1.14.14.80
Gene ID	1579

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA



mRNA Refseq	NM_000778
Protein Refseq	NP_000769
MIM	601310
UniProt ID	Q02928

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA