

Recombinant Human CYP4F11 Protein (38-524 aa), His-SUMO-tagged

Cat. No. CYP4F11-1130H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP4F11 Protein (38-524 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cardiovascular. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	38-524 aa
Description	Omega-hydroxylase that oxidizes a variety of structurally unrelated compounds, including fatty acids and xenobiotics. Plays a key role in vitamin K catabolism by mediating omega-hydroxylation of vitamin K1 (phylloquinone), and menaquinone-4 (MK-4), a form of vitamin K2. Hydroxylation of phylloquinone and MK-4 probably regulates blood coagulation . Catalyzes omega-hydroxylation of 3-hydroxy fatty acids, such as 3-hydroxypalmitate, 3-hydroxyoleate, 3-hydroxyarachidonate, and 3-hydroxystearate . Oxidizes drugs such as erythromycin, benzphetamine, ethylmorphine, chlorpromazine and imipramine.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	72.2 kDa
AA Sequence	TYTFYDNCRRRLQCFPPKQNWFWGHQGLVTPTEEGMKTLTQLVTTYPQGFKLWL

 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

GPTFPLLILCHPDII RPITSASAAVAPKDMIFYGFLKPWLGDG LLLSGGDKWSRHRM
 LTPAFHFNILKPYMKIFNKS VNIMHDKWQRLASEGSARLDMFEHISLMTLDSLQKCVF
 SFESNCQEKPSEYIAAILELSAFVEKRNQQILLHTDFLYYLT PDGQRFRRACHLVHDF
 TDAVIQERRCTLPTQGIDDFLKNKAKSKTLD FIDVLLLSKDEDGKELSD EDIRAEADTF
 MFEGHDTTASGLSWVLYHLAKHPEYQE QCRQEVQELLKDREPIEIEWDDLAQLPFL
 TMCIKESLRLHPPVPVISRCCTQDFVLPDGRVIPKGIVCLINIIGIHYNPTVWPDPEVYD
 PFRFDQENIKERSPLAFIPFSAGPRNCIGQAFAMAEMKVVLALTLLHFRILPTHTEPR
 RKPELILRAEGGLWLRVEPLGANSQ

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name CYP4F11 cytochrome P450, family 4, subfamily F, polypeptide 11 [Homo sapiens]

Official Symbol CYP4F11

Synonyms CYP4F11; cytochrome P450 4F11; CYP1VF11;

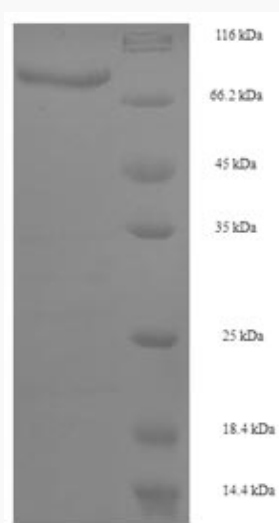
Gene ID 57834

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mRNA Refseq	NM_001128932
Protein Refseq	NP_001122404
MIM	611517
UniProt ID	Q9HBI6



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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