

Datasheet for ABIN7553531 CYP4F11 Protein (AA 1-524) (His tag)



Overview

Quantitur	1 mg
Quantity:	1 mg
Target:	CYP4F11
Protein Characteristics:	AA 1-524
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4F11 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP4F11 Protein expressed in mammalian cells.
Sequence:	MPQLSLSWLG LGPVAASPWL LLLLVGGSWL LARVLAWTYT FYDNCRRLQC FPQPPKQNWF
	WGHQGLVTPT EEGMKTLTQL VTTYPQGFKL WLGPTFPLLI LCHPDIIRPI TSASAAVAPK
	DMIFYGFLKP WLGDGLLLSG GDKWSRHRRM LTPAFHFNIL KPYMKIFNKS VNIMHDKWQR
	LASEGSARLD MFEHISLMTL DSLQKCVFSF ESNCQEKPSE YIAAILELSA FVEKRNQQIL
	LHTDFLYYLT PDGQRFRRAC HLVHDFTDAV IQERRCTLPT QGIDDFLKNK AKSKTLDFID
	VLLLSKDEDG KELSDEDIRA EADTFMFEGH DTTASGLSWV LYHLAKHPEY QEQCRQEVQE
	LLKDREPIEI EWDDLAQLPF LTMCIKESLR LHPPVPVISR CCTQDFVLPD GRVIPKGIVC LINIIGIHYN
	PTVWPDPEVY DPFRFDQENI KERSPLAFIP FSAGPRNCIG QAFAMAEMKV VLALTLLHFR
	ILPTHTEPRR KPELILRAEG GLWLRVEPLG ANSQ Sequence without tag. The proposed
	Purification-Tag is based on experiences with the expression system, a different complexity
	of the protein could make another tag necessary. In case you have a special request, please
	contact us.

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Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:
	• Made to order protein - from design to production - by highly experienced protein experts.
	Protein expressed in mammalian cells and purified in one-step affinity chromatography
	The optimized expression system ensures reliability for intracellular, secreted and
	transmembrane proteins.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	If you are not interested in a full length protein, please contact us for individual protein
	fragments.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	carrier be expressed of pullied.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	CYP4F11
Alternative Name:	CYP4F11 (CYP4F11 Products)
Background:	Cytochrome P450 4F11 (CYPIVF11) (EC 1.14.14.1) (3-hydroxy fatty acids omega-hydroxylase
	CYP4F11) (Docosahexaenoic acid omega-hydroxylase) (EC 1.14.14.79) (Long-chain fatty acid
	omega-monooxygenase) (EC 1.14.14.80) (Phylloquinone omega-hydroxylase CYP4F11) (EC
	1.14.14.78),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of
	various endogenous substrates, including fatty acids and their oxygenated derivatives
	(oxylipins) (PubMed:24138531, PubMed:15364545, PubMed:18065749). Mechanistically, uses
	molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a
	water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR,
	NADPH-ferrihemoprotein reductase) (PubMed:15364545, PubMed:18065749,
	PubMed:24138531). Catalyzes with high efficiency the oxidation of the terminal carbon
	(omega-oxidation) of 3-hydroxy fatty acids, such as 3-hydroxyhexadecanoic and 3-

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	hydroxyoctadecanoic acids, likely participating in the biosynthesis of long-chain 3-
	hydroxydicarboxylic acids (PubMed:18065749, PubMed:19932081). Omega-hydroxylates and
	inactivates phylloquinone (vitamin K1), and menaquinone-4 (MK-4, a form of vitamin K2), both
	acting as cofactors in blood coagulation (PubMed:24138531). Metabolizes with low efficiciency
	fatty acids, including (5Z,8Z,11Z,14Z)-eicosatetraenoic acid (arachidonate) and its oxygenated
	metabolite 8-hydroxyeicosatetraenoic acid (8-HETE) (PubMed:15364545, PubMed:19932081).
	Catalyzes N- and O-demethylation of drugs such as erythromycin, benzphetamine,
	ethylmorphine, chlorpromazine, imipramine and verapamil (PubMed:15364545). Catalyzes the
	oxidation of dialkylresorcinol 2 (PubMed:36565673). {ECO:0000269 PubMed:15364545,
	EC0:0000269 PubMed:18065749, EC0:0000269 PubMed:19932081,
	ECO:0000269 PubMed:24138531, ECO:0000269 PubMed:36565673}.
Molecular Weight:	60.1 kDa
UniProt:	Q9HBI6
Pathways:	Monocarboxylic Acid Catabolic Process
Application Details	
Application Details Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Application Notes:	functional studies yet we cannot offer a guarantee though.
Application Notes: Restrictions:	functional studies yet we cannot offer a guarantee though.
Application Notes: Restrictions: Handling	functional studies yet we cannot offer a guarantee though. For Research Use only
Application Notes: Restrictions: Handling Format:	functional studies yet we cannot offer a guarantee though. For Research Use only Liquid
Application Notes: Restrictions: Handling Format: Buffer:	functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer.
Application Notes: Restrictions: Handling Format: Buffer: Handling Advice:	functional studies yet we cannot offer a guarantee though. For Research Use only Liquid The buffer composition is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.