Datasheet for ABIN7546691

CYP4F12 Protein (AA 1-524) (His tag)

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Overview

Quantity:	1 mg
Target:	CYP4F12
Protein Characteristics:	AA 1-524
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4F12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP4F12 Protein expressed in mammalian cells.
Sequence:	MSLLSLPWLG LRPVATSPWL LLLLVVGSWL LARILAWTYA FYNNCRRLQC FPQPPKRNWF WGHLGLITPT EEGLKNSTQM SATYSQGFTV WLGPIIPFIV LCHPDTIRSI TNASAAIAPK DNLFIRFLKP WLGEGILLSG GDKWSRHRRM LTPAFHFNIL KSYITIFNKS ANIMLDKWQH LASEGSSRLD MFEHISLMTL DSLQKCIFSF DSHCQERPSE YIATILELSA LVEKRSQHIL QHMDFLYYLS HDGRRFHRAC RLVHDFTDAV IRERRRTLPT QGIDDFFKDK AKSKTLDFID VLLLSKDEDG KALSDEDIRA EADTFMFGGH DTTASGLSWV LYNLARHPEY QERCRQEVQE LLKDRDPKEI EWDDLAQLPF LTMCVKESLR LHPPAPFISR CCTQDIVLPD GRVIPKGITC LIDIIGVHHN PTVWPDPEVY DPFRFDPENS KGRSPLAFIP FSAGPRNCIG QAFAMAEMKV VLALMLLHFR FLPDHTEPRR KLELIMRAEG GLWLRVEPLN VSLQ **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.**

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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	CYP4F12
Alternative Name:	CYP4F12 (CYP4F12 Products)
Background:	Cytochrome P450 4F12 (EC 1.14.14.1) (CYPIVF12),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of endogenous polyunsaturated fatty acids (PUFAs). 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). Catalyzes the hydroxylation of carbon hydrogen bonds, with preference for omega-2 position. Metabolizes (5Z,8Z,11Z,14Z)-eicosatetraenoic acid (arachidonate) toward 18-hydroxy arachidonate (PubMed:11162607). Catalyzes the epoxidation of double bonds of PUFAs such as docosapentaenoic and docosahexaenoic acids (PubMed:16112640). Has low omega-hydroxylase activity toward leukotriene B4 and arachidonate (PubMed:11162645). Involved in the metabolism of xenobiotics. Catalyzes the hydroxylation of the antihistamine drug ebastine

Target Details

	(PubMed:11162645). {ECO:0000269|PubMed:11162607, ECO:0000269|PubMed:11162645, ECO:0000269|PubMed:16112640}.
Molecular Weight:	60.3 kDa
UniProt:	Q9HCS2
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months