Datasheet for ABIN7553537

CYP4V2 Protein (AA 1-525) (His tag)

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Overview

Quantity:	1 mg
Target:	CYP4V2
Protein Characteristics:	AA 1-525
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4V2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP4V2 Protein expressed in mammalian cells.
Sequence:	MAGLWLGLVW QKLLLWGAAS ALSLAGASLV LSLLQRVASY ARKWQQMRPI PTVARAYPLV GHALLMKPDG REFFQQIIEY TEEYRHMPLL KLWVGPVPMV ALYNAENVEV ILTSSKQIDK SSMYKFLEPW LGLGLLTSTG NKWRSRRKML TPTFHFTILE DFLDIMNEQA NILVKKLEKH INQEAFNCFF YITLCALDII CETAMGKNIG AQSNDDSEYV RAVYRMSEMI FRRIKMPWLW LDLWYLMFKE GWEHKKSLQI LHTFTNSVIA ERANEMNANE DCRGDGRGSA PSKNKRRAFL DLLLSVTDDE GNRLSHEDIR EEVDTFMFEG HDTTAAAINW SLYLLGSNPE VQKKVDHELD DVFGKSDRPA TVEDLKKLRY LECVIKETLR LFPSVPLFAR SVSEDCEVAG YRVLKGTEAV IIPYALHRDP RYFPNPEEFQ PERFFPENAQ GRHPYAYVPF SAGPRNCIGQ KFAVMEEKTI LSCILRHFWI ESNQKREELG LEGQLILRPS NGIWIKLKRR NADER **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:	CYP4V2
Alternative Name:	CYP4V2 (CYP4V2 Products)
Background:	Cytochrome P450 4V2 (Docosahexaenoic acid omega-hydroxylase CYP4V2) (EC 1.14.14.79) (Long-chain fatty acid omega-monooxygenase) (EC 1.14.14.80),FUNCTION: A cytochrome P450 monooxygenase involved in fatty acid metabolism in the eye. Catalyzes the omega-hydroxylation of polyunsaturated fatty acids (PUFAs) docosahexaenoate (DHA) and its precursor eicosapentaenoate (EPA), and may contribute to the homeostasis of these retinal PUFAs (PubMed:22772592). Omega hydroxylates saturated fatty acids such as laurate, myristate and palmitate, the catalytic efficiency decreasing in the following order: myristate > laurate > palmitate (C14>C12>C16) (PubMed:19661213). 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). {ECO:0000269|PubMed:19661213,

Target Details

	ECO:0000269|PubMed:22772592}.
Molecular Weight:	60.7 kDa
UniProt:	Q6ZWL3

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

