

Datasheet for ABIN7546736
CYP4F22 Protein (AA 1-531) (His tag)



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Overview

Quantity:	1 mg
Target:	CYP4F22
Protein Characteristics:	AA 1-531
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4F22 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP4F22 Protein expressed in mammalian cells.
Sequence:	<p>MLPITDRLLH LLGLEKTAFR IYAVSTLLLF LLFFLFRLLL RFLRLCRSFY ITCRRLRCFP QPPRRNWLLG HLGMYLPNEA GLQDEKKVLD NMHHVLLVWM GPVLPLLVLV HPDYIKPLLG ASAAIAPKDD LFYGFLKPWL GDGLLLSKGD KWSRHRRLLT PAFHFDILKP YMKIFNQSAD IMHAKWRHLA EGSAVSLDMF EHISLMTLDS LQKCVFSYNS NCQEKMSDYI SAIIELSALS VRRQYRLHHY LDFIYYRSAD GRRFRQACDM VHHFTTEVIQ ERRRALRQQG AEAWLKAKQG KTLDFIDVLL LARDEDGKEL SDEDIRAEAD TFMFEGHDTT SSGISWMLFN LAKYPEYQEK CREEIQEVMK GRELEELEWD DLTQLPFTTM CIKESLRQYP PVTLVSRQCT EDIKLPDGR I IPKGIICLVSY IYGTHHNPTV WPDSKVYNPY RFDPDNPQQR SPLAYVPFSA GPRNCIGQSF AMAELRVVVA LTLRFRLSV DRTRKVRKPK ELILRTENGL WLKVEPLPPR A 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.</p>

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: CYP4F22

Alternative Name: CYP4F22 ([CYP4F22 Products](#))

Background: Ultra-long-chain fatty acid omega-hydroxylase (EC 1.14.14.177) (Cytochrome P450 4F22),FUNCTION: A cytochrome P450 monooxygenase involved in epidermal ceramide biosynthesis. Hydroxylates the terminal carbon (omega-hydroxylation) of ultra-long-chain fatty acyls (C28-C36) prior to ceramide synthesis (PubMed:26056268). Contributes to the synthesis of three classes of omega-hydroxy-ultra-long chain fatty acylceramides having sphingosine, 6-hydroxysphingosine and phytosphingosine bases, all major lipid components that underlie the permeability barrier of the stratum corneum (PubMed:26056268). 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:26056268). {ECO:0000269|PubMed:26056268}.

Molecular Weight: 62.0 kDa

Target Details

UniProt: [Q6NT55](#)

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