

Datasheet for ABIN7557475
FA2H Protein (AA 1-372) (His tag)



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Overview

Quantity:	1 mg
Target:	FA2H
Protein Characteristics:	AA 1-372
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FA2H protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Fa2h Protein expressed in mammalian cells.
Sequence:	MAPAPPPAAS FTPAEVQRR L AAGACWVRRG ASLYDLTFSV RHHPGGEQLL LARAGQDISA DLDGPPHRHS DNARRWLEQY YVGELRADPQ DPTENGAVAS AETQKTDPAL EPQFKVVDWD KDLVDWQKPL LWQVGHLGEK YDEWVHQPVA RPIRLFHSDL IEAFSKTVWY SVPIIWVPLV LYLSWSYYRT LTQDNIRLFA SLTREYSMMM PESVFIGLFV LGMLFWTFVE YVIHRFLFHM KPPSNSHYLI MLHFVMHGQH HKAPFDGSRL VFPPVPASLV IAFFYVFLRL ILPETVGGII FAGGLLGYVL YDMTHYYLHF GSPHKGSYLY NMKAHHVKHH FEYQKSGFGI STKLWDYFFH TLIPEEAHPK MQ 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.
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:

Product Details

- 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:	FA2H
Alternative Name:	Fa2h (FA2H Products)
Background:	<p>Fatty acid 2-hydroxylase (EC 1.14.18.-) (Fatty acid alpha-hydroxylase),FUNCTION: Catalyzes the hydroxylation of free fatty acids at the C-2 position to produce 2-hydroxy fatty acids, which are building blocks of sphingolipids and glycosphingolipids common in neural tissue and epidermis (PubMed:15658937, PubMed:16998236, PubMed:22517924). FA2H is stereospecific for the production of (R)-2-hydroxy fatty acids (PubMed:22517924). Plays an essential role in the synthesis of galactosphingolipids of the myelin sheath (PubMed:15658937, PubMed:18815260). Responsible for the synthesis of sphingolipids and glycosphingolipids involved in the formation of epidermal lamellar bodies critical for skin permeability barrier (By similarity). Participates in the synthesis of glycosphingolipids and a fraction of type II wax diesters in sebaceous gland, specifically regulating hair follicle homeostasis (PubMed:21628453). Involved in the synthesis of sphingolipids of plasma membrane rafts, controlling lipid raft mobility and trafficking of raft-associated proteins (PubMed:22517924). {ECO:0000250 UniProtKB:Q7L5A8, ECO:0000269 PubMed:15658937, ECO:0000269 PubMed:16998236, ECO:0000269 PubMed:18815260,</p>

Target Details

ECO:0000269|PubMed:21628453, ECO:0000269|PubMed:22517924}.

Molecular Weight: 43.0 kDa

UniProt: [Q5MPP0](#)

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
