Datasheet for ABIN7556543

Fat Storage-Inducing Transmembrane Protein 2 (FITM2) (AA 1-262) protein (His tag)

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Overview

Quantity:	1 mg
Target:	Fat Storage-Inducing Transmembrane Protein 2 (FITM2)
Protein Characteristics:	AA 1-262
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant Fitm2 Protein expressed in mammalian cells.
Sequence:	MEHLERCAWF LRGTLVRATV RRHLPWALVA AMLAGSVVKE LSPLPESYLS NKRNVLNVYF VKLAWAWTVC LLLPFIALTN YHLTGKTSLV LRRLSTLLVG TAIWYICTAL FSNIEHYTGS CYQSPALEGI RQEHRSKQQC HREGGFWHGF DISGHSFLLT FCALMIVEEM AVLHEVKTDR GHHLHAAITT LVVALGFLTF IWVWMFLCTA VYFHDLTQKV FGTMFGLLGW YGTYGYWYLK SFSPGLPPQS CSLTLKRDTY KK **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: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- 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:	Fat Storage-Inducing Transmembrane Protein 2 (FITM2)
Alternative Name:	Fitm2 (FITM2 Products)
Background:	Acyl-coenzyme A diphosphatase FITM2 (EC 3.6.1.-) (Fat storage-inducing transmembrane protein 2) (Fat-inducing protein 2),FUNCTION: Fatty acyl-coenzyme A (CoA) diphosphatase that hydrolyzes fatty acyl-CoA to yield acyl-4'-phosphopantetheine and adenosine 3',5'-bisphosphate (By similarity). Preferentially hydrolyzes unsaturated long-chain acyl-CoA substrates such as oleoyl-CoA/(9Z)-octadecenoyl-CoA and arachidonoyl-CoA/(5Z,8Z,11Z,14Z)-eicosatetraenoyl-CoA in the endoplasmic reticulum (ER) lumen (By similarity). This catalytic activity is required for maintaining ER structure and for lipid droplets (LDs) biogenesis, which are lipid storage organelles involved in maintaining lipid and energy homeostasis (PubMed:18160536, PubMed:26504167) (By similarity). Directly binds to diacylglycerol (DAGs) and triacylglycerol, which is also important for LD biogenesis (PubMed:22106267) (By similarity). May support directional budding of nacent LDs from the ER into the cytosol by reducing DAG levels at sites of LD formation (By similarity). Plays a role in the regulation of cell morphology and cytoskeletal organization (By similarity). {ECO:0000255|HAMAP-Rule:MF_03230, ECO:0000269|PubMed:18160536, ECO:0000269|PubMed:22106267, ECO:0000269|PubMed:26504167}.

Target Details

Molecular Weight:	30.0 kDa
UniProt:	P59266

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

