

Datasheet for ABIN7544418
TMEM68 Protein (AA 1-324) (His tag)



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Overview

Quantity:	1 mg
Target:	TMEM68
Protein Characteristics:	AA 1-324
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM68 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant TMEM68 Protein expressed in mammalian cells.
Sequence:	MIDKNQTCGV GQDSVPYMIC LIHILEEWFG VEQLEDYLNF ANYLLWVFTP LILLILPYFT IFLLYLTIIF LHIYKRKNVL KEAYSHNLWD GARKTVATLW DGHAAVWHGY EVHGMKEIPE DGPALIIFYH GAIPIDFYF MAKIFIHKGR TCRVADHFV FKIPGFSLLL DVFCALHGPR EKCVEILRSG HLLAISPGGV REALISDETY NIVWGHRRGF AQVAIDAKVP IIPMFTQNIR EGFRSLGGTR LFRWLYEKFR YPFAPMYGGF PVKLRTYLGD PIPYDPQITA EELAEKTKNA VQALIDKHQR IPGNIMSALL ERFH 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:	TMEM68
Alternative Name:	TMEM68 (TMEM68 Products)
Background:	DGAT1/2-independent enzyme synthesizing storage lipids (DIESL) (EC 2.3.1.-) (2-acylglycerol/1,2-diacylglycerol O-acyltransferase) (Monoacylglycerol/Diacylglycerol O-acyltransferase) (MGAT/DGAT) (EC 2.3.1.20, EC 2.3.1.22) (Transmembrane protein 68),FUNCTION: Catalytic subunit of the alternative triglyceride biosynthesis pathway, which mediates formation of triacylglycerol from diacylglycerol and membrane phospholipids (PubMed:37648867). Synthesizes triacylglycerol at the expense of membrane phospholipids, such as phosphatidylcholine (PC) and its ether-linked form (ePC), thereby altering the composition of membranes (PubMed:37648867). The alternative triglyceride biosynthesis pathway is probably required to provide the energy required for rapid growth when fuel sources are limiting (PubMed:37648867). It maintains mitochondrial function during periods of extracellular lipid starvation (PubMed:37648867). Can also use acyl-CoA as donor: acts as a acyl-CoA:monoacylglycerol acyltransferase (MGAT), but also shows acyl-CoA:diacylglycerol acyltransferase (DGAT) activity (By similarity). {ECO:0000250 UniProtKB:Q9D850, ECO:0000269 PubMed:37648867}.

Target Details

Molecular Weight: 37.4 kDa

UniProt: [Q96MH6](#)

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