

Datasheet for ABIN7560567

THEM2 Protein (AA 1-140) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	THEM2 (ACOT13)
Protein Characteristics:	AA 1-140
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THEM2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Acot13 Protein expressed in mammalian cells.
Sequence:	MSSMTQNLRE VMKVMFKVPG FDRVLEKVTI VSAAPEKLIC EMKVVEEQHTN KLGTLHGGLT ATLVDSISTM ALMCTERGAP GVSVDNMITY MSPAKIGEEI VITAHILKQG KTLAFASVDL TNKTTGKLIA QGRHTKHLGN 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. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.

Product Details

- 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:	THEM2 (ACOT13)
Alternative Name:	Acot13 (ACOT13 Products)
Background:	Acyl-coenzyme A thioesterase 13 (Acyl-CoA thioesterase 13) (EC 3.1.2.-) (Hotdog-fold thioesterase superfamily member 2) (Palmitoyl-CoA hydrolase) (EC 3.1.2.2) (Thioesterase superfamily member 2) (THEM2),FUNCTION: Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:19405909). Has acyl-CoA thioesterase activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates (PubMed:19405909). Can also hydrolyze 3-hydroxyphenylacetyl-CoA and 3,4-dihydroxyphenylacetyl-CoA (in vitro) (By similarity). May play a role in controlling adaptive thermogenesis (PubMed:24072708). {ECO:0000250 UniProtKB:Q9NPJ3, ECO:0000269 PubMed:19405909, ECO:0000269 PubMed:24072708}.
Molecular Weight:	15.2 kDa
UniProt:	Q9CQR4

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.
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Application Details

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