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THEM2 Protein (AA 2-140) (His tag)





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Overview

Quantity:	1 mg
Target:	THEM2 (ACOT13)
Protein Characteristics:	AA 2-140
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This THEM2 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)
Product Details	
Sequence:	SSMTQNLREV MKVMFKVPGF DRVLEKVTLV SAAPEKLICE MKVEEQHTNK LGTLHGGLTA
	TLVDSISTMA LMCTERGAPG VSVDMNITYM SPAKIGEEIV ITAHILKQGK TLAFASVDLT
	NKTTGKLIAQ GRHTKHLGN
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	 Mouse Acot13 Protein (raised in E. Coli) purified by multi-step, protein-specific process to
	 ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	ensure crystallization grade.
	ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis).

made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	THEM2 (ACOT13)
Alternative Name:	Acot13 (ACOT13 Products)
Background:	Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the
	free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels
	of acyl-CoAs, free fatty acids and CoASH. Has acyl-CoA thioesterase activity towards medium
	(C12) and long-chain (C18) fatty acyl-CoA substrates. Can also hydrolyze 3-

Target Details

Expiry Date:

ontrolling adaptive thermogenesis. led:24072708}.
ne protein to work for functional studies al studies yet we cannot offer a gurantee
which it is highly likely that the le our protein lab may suggest a higher solubility. We will discuss all possible ur protein of interest.
at the discretion of the manufacturer.

Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process