

Datasheet for ABIN7548258

## HACL1 Protein (AA 1-578) (His tag)



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### Overview

Quantity:	1 mg
Target:	HACL1
Protein Characteristics:	AA 1-578
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HACL1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant HACL1 Protein expressed in mammalian cells.
Sequence:	<p>MPDSNFAERS EEQVSGAKVI AQALKTQDVE YIFGIVGIPV TEIAIAAQL GIKYIGMRNE</p> <p>QAACYAASAI GYLTSRPGVC LVS GPGLIH ALGGMANANM NCWPLL VIGG SSERNQETMG</p> <p>AFQEFQVEA CRLYTKFSAR PSSIEAIPFV IEKAVRSSY GRPGACYVDI PADFVN LQVN</p> <p>VNSIKYMER C MSPPISMAET SAVCTAASVI RNAKQPLLII GKGAAYAHAE ESIKKLVEQY</p> <p>KLPFLPTPMG KGVVPDNHPY CVGAARSRAL QFADVIVLFG ARLNWILHFG LPPRYQPDVK</p> <p>FIQVDICAE LGNNVKPAVT LLGNIHAVTK QLLEELDKTP WQYPPE SKWW KTLREKMKSN</p> <p>EAASKELASK KSLPMNYYTV FYHVQEQLPR DCFVVSEGAN TMDIGRTLQ NYLPRHRLDA</p> <p>GTFGTMGVGL GFAIAAAVVA KDRSPGQWII CVEGDSAFGF SGMEVETICR YNLPIILLVV</p> <p>NNNGIYQGF D TDTWKEM LKF QDATAVPPM CLLPNSHYEQ VMTAFGGKG Y FVQTPEELQK</p> <p>SLRQSLADTT KPSLINIMIE PQATRKAQDF HWLTRSNM</p> <p><b>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</b></p>

**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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	HACL1
Alternative Name:	HACL1 ( <a href="#">HACL1 Products</a> )
Background:	<p>2-hydroxyacyl-CoA lyase 1 (EC 4.1.2.63) (2-hydroxyphytanoyl-CoA lyase) (2-HPCL) (Phytanoyl-CoA 2-hydroxylase 2),FUNCTION: Peroxisomal 2-OH acyl-CoA lyase involved in the cleavage (C1 removal) reaction in the fatty acid alpha-oxydation in a thiamine pyrophosphate (TPP)-dependent manner (PubMed:28289220, PubMed:21708296, PubMed:10468558). Involved in the degradation of 3-methyl-branched fatty acids like phytanic acid and the shortening of 2-hydroxy long-chain fatty acids (PubMed:28289220, PubMed:21708296, PubMed:10468558). Plays a significant role in the biosynthesis of heptadecanal in the liver (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q9QXE0, ECO:0000269 PubMed:10468558, ECO:0000269 PubMed:21708296, ECO:0000269 PubMed:28289220}.</p>

## Target Details

Molecular Weight:	63.7 kDa
UniProt:	<a href="#">Q9UJ83</a>
Pathways:	<a href="#">Monocarboxylic Acid Catabolic Process</a>

## 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