

Datasheet for ABIN7553174  
**CERS6 Protein (AA 1-384) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CERS6
Protein Characteristics:	AA 1-384
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CERS6 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CERS6 Protein expressed in mammalian cells.
Sequence:	<p>MAGILAWFWN ERFWLPHNVT WADLKNTEEA TFPQAEDLYL AFPLAFCIFM VRLIFERFVA</p> <p>KPCAIALNIQ ANG PQIAPPN AILEKVFTAI TKHPDEKRLE GLSKQLDWDV RSIQRWFRQR</p> <p>RNQEKPSTLT RFCESMWRF S FYLYVFTYGV RFLKKT P WLW NTRHCWYNYP YQPLTTDLHY</p> <p>YYILELSFYW SLMFSQFTDI KRKDFGIMFL HHLVSIFLIT FSYVNNMARV GTLVLC LHDS</p> <p>ADALLEAAKM ANYAKFQKMC DLLFVMFAVV FITTRLGIFP LWV LNTTLFE SWEIVGPYPS</p> <p>WWVFNLLLLL VQGLNCFWSY LIVKIACKAV SRGK VSKDDR SDIESSSDEE DSEPPGKNPH</p> <p>TATTTNGTSG TNGYLLTGSC SMDD <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 contact us.</b></p>
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

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- 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

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Target:	CERS6
Alternative Name:	CERS6 ( <a href="#">CERS6 Products</a> )
Background:	<p>Ceramide synthase 6 (CerS6) (LAG1 longevity assurance homolog 6) (Sphingoid base N-palmitoyltransferase CERS6) (EC 2.3.1.291),FUNCTION: Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward palmitoyl-CoA (hexadecanoyl-CoA, C16:0-CoA) (PubMed:17977534, PubMed:17609214, PubMed:23530041, PubMed:26887952, PubMed:31916624). Can use other acyl donors, but with less efficiency (By similarity). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (PubMed:17977534, PubMed:23530041, PubMed:26887952, PubMed:31916624). Ceramides generated by CERS6 play a role in inflammatory response (By similarity). Acts as a regulator of metabolism and hepatic lipid accumulation (By similarity). Under high fat diet, palmitoyl- (C16:0-) ceramides generated by CERS6 specifically bind the mitochondrial fission factor MFF, thereby promoting mitochondrial fragmentation and contributing to the development of obesity (By similarity). {ECO:0000250 UniProtKB:Q8C172, ECO:0000269 PubMed:17609214, ECO:0000269 PubMed:17977534, ECO:0000269 PubMed:23530041,</p>

### Target Details

	ECO:0000269 PubMed:26887952, ECO:0000269 PubMed:31916624}.
Molecular Weight:	44.9 kDa
UniProt:	<a href="#">Q6ZMG9</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