

Datasheet for ABIN7559101
CERS6 Protein (AA 1-384) (His tag)



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Overview

Quantity:	1 mg
Target:	CERS6
Protein Characteristics:	AA 1-384
Origin:	Mouse
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:	MAGILAWFWN ERFWLPNVT WADLKNTEEA TFPQAEDLYL AFPLAFCIFM VRLIFERFIA KPCAIALNIQ ANGPQTAQPN AILEKVFTAI TKHPDEKRLE GLSKQLDWDV RSIQRWFRQR RNQEKPSTLT RFCESMWRFS FYLYVFSYGV RFLKQTPWLW NTRHCWYNYP YQPLTADLHY YYILELSFYW SLMVSQFTDI KRKDFGIMFL HHLATIFLIT FSYVNNMARV GTLVLCLHDS ADALLEAAKM ANYAKFQKMC DLLFVMFAVV FITTRLGIFP LWVLNNTLFE SWEIVGPYPS WWVFNLLLLL LQGLNCFWSY LIVKIACKTV SKGKVKDDR SDIESSDDE DSEPPGKKPH SSTTTNGTSG TNGYLLTGPC SVDD 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:	CERS6
Alternative Name:	Cers6 (CERS6 Products)
Background:	<p>Ceramide synthase 6 (CerS6) (EC 2.3.1.-) (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:15823095, PubMed:18541923, PubMed:23760501, PubMed:31150623). Can use other acyl donors, but with less efficiency (PubMed:18541923). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively. Ceramides generated by CERS6 play a role in inflammatory response (PubMed:22544924). Acts as a regulator of metabolism and hepatic lipid accumulation (PubMed:25295788, PubMed:30655217, PubMed:31150623). 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 (PubMed:31150623).</p> <p>{ECO:0000269 PubMed:15823095, ECO:0000269 PubMed:18541923, ECO:0000269 PubMed:22544924, ECO:0000269 PubMed:23760501,</p>

Target Details

ECO:0000269|PubMed:25295788, ECO:0000269|PubMed:30655217,
ECO:0000269|PubMed:31150623}.

Molecular Weight: 44.8 kDa

UniProt: [Q8C172](#)

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