

Datasheet for ABIN7560265

Ceramide Synthase 2 Protein (CERS2) (AA 1-380) (His tag)



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Overview

Quantity:	1 mg
Target:	Ceramide Synthase 2 (CERS2)
Protein Characteristics:	AA 1-380
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ceramide Synthase 2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cers2 Protein expressed in mammalian cells.
Sequence:	<p>MLQTLYDYFW WERLWLPVNL TWADLEDKDG RVYAKASDLY ITLPLALLFL VIRYFFELYV ATPLAALLNV KEKTRLRAPP NATLEHFYQT SGKQPKQVEV DLLSRQSGLS GRQVERWFRR RRNQDRPSLL KKFREASWRF TYYLIAFVAG MAVTVDKPWF YDLRKVWEGY PIQSIIPSQY WYYMIELSFY WSLLFASIAD VKRKDFKEQI IHHVATIILL CFSWFANYVR AGTLIMALHD ASDYLLES AK MFNYAGWKNT CNLNFIVFAI VFIITRLVIM PFWILHCTMI YPLELYPAFF GYYFFNFMMA VLQMLHIFWA YFILRMAHKF ITGKLIEDER SDREETESSE GEETAAGAGA KSRLLANGHP ILNNNHPKND</p> <p>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.</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

- 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:	Ceramide Synthase 2 (CERS2)
Alternative Name:	Cers2 (CERS2 Products)
Background:	<p>Ceramide synthase 2 (CerS2) (LAG1 longevity assurance homolog 2) (Sphingosine N-acyltransferase CERS2) (EC 2.3.1.24) (Translocating chain-associating membrane protein homolog 3) (TRAM homolog 3) (Tumor metastasis-suppressor gene 1 protein) (Very-long-chain ceramide synthase CERS2) (EC 2.3.1.297),FUNCTION: Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward very-long-chain fatty acyl-CoA (chain length C22-C27) (PubMed:15823095, PubMed:18165233, PubMed:20110363, PubMed:23275342). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (PubMed:15823095, PubMed:18165233, PubMed:20110363, PubMed:23275342). Plays a non-redundant role in the synthesis of ceramides with very-long-chain fatty acids in kidney, liver and brain. Regulates the abundance of myelin-specific sphingolipids galactosylceramide and sulfatide that affects myelin sheath architecture and motor neuron functions (PubMed:19801672, PubMed:32279995). {ECO:0000269 PubMed:15823095, ECO:0000269 PubMed:18165233, ECO:0000269 PubMed:19801672,</p>

Target Details

	ECO:0000269 PubMed:20110363, ECO:0000269 PubMed:23275342, ECO:0000269 PubMed:32279995}.
Molecular Weight:	45.0 kDa
UniProt:	Q924Z4

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