

Datasheet for ABIN7564736

Spingomyelin Synthase 1 Protein (SGMS1) (AA 1-419) (His tag)



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Overview

Quantity:	1 mg
Target:	Spingomyelin Synthase 1 (SGMS1)
Protein Characteristics:	AA 1-419
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Spingomyelin Synthase 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Sgms1 Protein expressed in mammalian cells.
Sequence:	<p>MLSARTMKEV VYWSPKKVAD WLLNAMPEY CELEHFTGQ DLINLTQEDF KKPPLYRVSS DNGQRLLDMI ETLKMEHHME AHKNGHANGH LSIGVDIPNP DGSFSIKTKP NGMPNGFRKE MIKIPMPEPE RSQYPMEWGK TFLAFLYALS CFVLTTVMIS VHERVPPKE VQPPLPDTFF DHFNRVQWAF SICEINGMIL VGLWLFQWLL LKYKSIISRR FFCIVGTLYL YRCITMYVTT LPVPGMHFNC SPKLFWDWEA QVRRIMKLIA GGGLSITGSH NMGDYL YSG HTVMLTLTYL FIKEYSPRRL WYWHWCWLL SVVGIFCILL AHDHYTVDV VAYYITTRLF WYHTMANQQ VLKEASQMNL LARVWWYRPF QYFEKNVQGI VPRSYHWPFP WPVVHLSRQV KYSRLVNDT</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.

Product Details

Characteristics:

Key Benefits:

- 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:

Sphingomyelin Synthase 1 (SGMS1)

Alternative Name:

Sgms1 ([SGMS1 Products](#))

Background:

Phosphatidylcholine:ceramide cholinephosphotransferase 1 (EC 2.7.8.27) (Protein Mob) (Sphingomyelin synthase 1) (Transmembrane protein 23),FUNCTION: Major sphingomyelin synthase at the Golgi apparatus (By similarity). Catalyzes the reversible transfer of phosphocholine moiety in sphingomyelin biosynthesis: in the forward reaction transfers phosphocholine head group of phosphatidylcholine (PC) on to ceramide (CER) to form ceramide phosphocholine (sphingomyelin, SM) and diacylglycerol (DAG) as by-product, and in the reverse reaction transfers phosphocholine from SM to DAG to form PC and CER. The direction of the reaction depends on the levels of CER and DAG in Golgi membranes (By similarity). Does not use free phosphorylcholine or CDP-choline as donor. Regulates receptor-mediated signal transduction via mitogenic DAG and proapoptotic CER, as well as via SM, a structural component of membrane rafts that serve as platforms for signal transduction and protein sorting (PubMed:22580896, PubMed:16879426) (By similarity). Plays a role in secretory transport via regulation of DAG pool at the Golgi apparatus and its downstream effects on

Target Details

PRKD1 (By similarity). {ECO:0000250|UniProtKB:Q86VZ5, ECO:0000269|PubMed:16879426, ECO:0000269|PubMed:22580896}., FUNCTION: (Microbial infection) Contributes to the brain SM production for Japanese encephalitis virus attachment and infection. {ECO:0000269|PubMed:27892528}.

Molecular Weight: 49.3 kDa

UniProt: [Q8VCQ6](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

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