

Datasheet for ABIN7555509

**Spingomyelin Synthase 2 Protein (SGMS2) (AA 1-365) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	Spingomyelin Synthase 2 (SGMS2)
Protein Characteristics:	AA 1-365
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Spingomyelin Synthase 2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat SGMS2 Protein expressed in mammalian cells.
Sequence:	<p>MDIETAKLE EHLENQPSDP TNTYARPAEP VEEENKNGNG KPKSLSSGLR KGTKKYPDYI QIAMPTESRN KFPLEWWKTG IAFIYAVFNL VLTTVMITVV HERVPPKELS PPLPKFFDY IDRVKWAFSV SEINGIILVG LWITQWLFLR YKSIVGRRFC FIIGTLYLYR CITMYVTTLF VPGMHFQCAP KLNGDSQAKV QRILRLISGG GLSITGSHIL CGDFLFSGHT VTLTLTYLFI KEYSPRHFWW YHLICWLLSA AGIICILVAH EHYTIDVIA YYITTRLFWW YHSMANEKNL KVSSQTNFLS RAWWFPIFYF FEKNVQGSIP CCFSWPLSWP PGCFKSSCKK YSRVQKIGED NEKST</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 contact us.</b></p>
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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: Sphingomyelin Synthase 2 (SGMS2)

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Alternative Name: SGMS2 ([SGMS2 Products](#))

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Background: Phosphatidylcholine:ceramide cholinephosphotransferase 2 (EC 2.7.8.27) (Sphingomyelin synthase 2),FUNCTION: Sphingomyelin synthase that primarily contributes to sphingomyelin synthesis and homeostasis at the plasma membrane. 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 appears to depend on the levels of CER and DAG in the plasma membrane (PubMed:14685263, PubMed:17449912, PubMed:17982138, PubMed:18370930). Does not use free phosphorylcholine or CDP-choline as donors (PubMed:14685263). Can also transfer phosphoethanolamine head group of phosphatidylethanolamine (PE) on to ceramide (CER) to form ceramide phosphoethanolamine (CPE) (PubMed:19454763). 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

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## Target Details

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protein sorting (PubMed:17449912, PubMed:17982138). To a lesser extent, plays a role in secretory transport via regulation of DAG pool at the Golgi apparatus and its downstream effects on PRKD1 (PubMed:18370930, PubMed:21980337). Required for normal bone matrix mineralization (PubMed:30779713). {ECO:0000269|PubMed:14685263, ECO:0000269|PubMed:17449912, ECO:0000269|PubMed:17982138, ECO:0000269|PubMed:18370930, ECO:0000269|PubMed:19454763, ECO:0000269|PubMed:21980337, ECO:0000269|PubMed:30779713}.

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Molecular Weight: 42.3 kDa

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UniProt: [Q8NHU3](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months