

Datasheet for ABIN7546018  
**SGPL1 Protein (AA 1-568) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SGPL1
Protein Characteristics:	AA 1-568
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGPL1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SGPL1 Protein expressed in mammalian cells.
Sequence:	MPSTDLLMLK AFEPYLEILE VYSTKAKNYV NGHCTKYEPW QLIAWSVWWT LLIVWGYEFV FQPESLWSRF KKKCFKLTRK MPIIGRKIQD KLNKTKDDIS KNMSFLKVDK EYVKALPSQG LSSSAVLEKL KEYSMDAFW QEGRASGTVY SGEEKL TELL VKAYGDFAWS NPLHPDIFPG LRKIEAEIVR IACSLFNNGP DSCGCVTSGG TESILMACKA YRDLA FEKGI KTPEIVAPQS AHAAFNKAAS YFGMKIVRVP LTKMMEVDVR AMRRAISRNT AMLVCSTPQF PHGVIDPVPE VAKLAVKYKI PLHVDACLGG FLIVFMEKAG YPLEHPDFR VKGVTSISAD THKYGYAPKG SSLVLYSDKK YRNYQFFVDT DWQGGIYASP TIAGSRPGGI SAACWAALMH FGENGYVEAT KQIIKTARFL KSELENIKGI FVFGNPQLSV IALGSRDFDI YRLSNLMTAK GWNLNLQQLFP PSIHFCITLL HARKRVAIQF LKDIRESVTQ IMKNPKAKTT GMGAIYGMAQ TTVDRNMVAE LSSVFLDSLY STDTVTQGSQ MNGSPKPH <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</b>

## Product Details

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### 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:

- 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: SGPL1

Alternative Name: SGPL1 ([SGPL1 Products](#))

Background: Sphingosine-1-phosphate lyase 1 (S1PL) (SP-lyase 1) (SPL 1) (hSPL) (EC 4.1.2.27) (Sphingosine-1-phosphate aldolase),FUNCTION: Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis (PubMed:11018465, PubMed:14570870, PubMed:24809814, PubMed:28165339). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts. Involved in the regulation of pro-inflammatory response and neutrophil trafficking. Modulates neuronal autophagy via phosphoethanolamine production which regulates accumulation of aggregate-prone proteins such as APP (By similarity). Seems to play a role in establishing neuronal contact sites and axonal maintenance (By similarity). {ECO:0000250|UniProtKB:Q8R0X7,

## Target Details

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ECO:0000250|UniProtKB:Q9V7Y2, ECO:0000269|PubMed:11018465,  
ECO:0000269|PubMed:14570870, ECO:0000269|PubMed:24809814,  
ECO:0000269|PubMed:28165339}.

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Molecular Weight: 63.5 kDa

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UniProt: [O95470](#)

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Pathways: [Platelet-derived growth Factor Receptor Signaling](#)

## Application Details

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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.

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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