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Datasheet for ABIN7562574

**SMPD2 Protein (AA 1-419) (His tag)**

## Overview

Quantity:	1 mg
Target:	SMPD2
Protein Characteristics:	AA 1-419
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMPD2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Smpd2 Protein expressed in mammalian cells.
Sequence:	<p>MKLNFSRLRLR VFNLCWDIP YLSKHRADRM KRLGDFLNLE NFDLALLEEV WSEQDFQYLR QRLSLTYPDA HYFRSGMIGS GLCVFSKHPI QEIQHVYSL NGYPYMFHHG DWFCGKSVGL LVLRLSGLVL NAYVTHLHAE YSRQKDIYFA HRVAQAWELA QFIHHTSKNA DVLLCGDLN MHPKDLGCCL LKEWTGLHDA FVETEDFKGS DDGCTMVPKN CYVSQQDLGP FPSGIRIDYV LYKAVSEFHV CCETLKTTTG CDPHSDKPFS DHEALMATLY VKHSPQEDP CTACGPLERS DLISVLRER TELGLGIKA RWWAAFSGYV IVWGLSLLVL LCVLAAGEEA REVAILCIP SVGLVLVAGA VYLFHKQEAQ GLCRAQAEML HVLRETETQ DRGSEPHLAY CLQQEGDRA</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>
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

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

SMPD2

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### Alternative Name:

Smpd2 ([SMPD2 Products](#))

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### Background:

Sphingomyelin phosphodiesterase 2 (EC 3.1.4.12) (Lyso-platelet-activating factor-phospholipase C) (Lyso-PAF-PLC) (Neutral sphingomyelinase) (N-SMase) (nSMase),FUNCTION: Catalyzes, at least in vitro, the hydrolysis of sphingomyelin to form ceramide and phosphocholine (PubMed:9520418). Also hydrolyzes 1-O-alkyl-2-lyso-sn-glycero-3-phosphocholine (lyso-platelet-activating factor) in vivo (By similarity). Also acts on 1-acyl-2-lyso-sn-glycero-3-phosphocholine (lyso-PC) and sphingosylphosphocholine (By similarity). {ECO:0000250|UniProtKB:O60906, ECO:0000269|PubMed:9520418}.

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### Molecular Weight:

47.5 kDa

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### UniProt:

[O70572](#)

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### Pathways:

[Neurotrophin Signaling Pathway](#)

## 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

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## 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

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