

Datasheet for ABIN7558140  
**SMPD4 Protein (AA 1-823) (His tag)**



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3 Images

### Overview

Quantity:	1 mg
Target:	SMPD4
Protein Characteristics:	AA 1-823
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMPD4 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Smpd4 Protein expressed in mammalian cells.
Sequence:	<p>MAFPHLQQPS FLLASLKADS INKPFAQRCQ DLVKVIEDFP AKELHAVFPW LVESIFGSLD            GVLVGNLRC LQGRVNPVEY STAMEFLDPS GPMMLVYKL QAEDYNFDFP VSCLPGPVKA            SIQENVLPDS PLYHNKVQFP PTGGLGLNLA LNPFEYYMFY FALSLSIQKP MSMTLHVRTS            DCAYFTLVDR YLSWFLPTEG SVPPPLCSSP GGSSPSPAPR TPAMPFASYG LHTSLLKRHI            SHQTSVNADP ASHEIWRSET LLQVFVEMWL HHYSLEMYQK MQSPHAKLEV LHRYLTVSSA            LHSPAQPSLQ ALHAYQESFT PTEEHVLVVR LLLKHLHAFANA NSLKPDAQSP SAHSHATSPL            EEFKRAAVPR FVQQKLYVFL QHCFGHWPLD ATFRAVLEMW LSYLQPWRYA PEKQAQGS DP            QPRCVSEKWA PFIQENLLMY TKLFVSFLNR ALRTDLVSPK NALMVFRVAK VFAQPNLAEM            IQKGQFLFLE PELIIPHRQH RLFTVTTSFL SPWPPVVTDA SFKVKSHVYS LEGQDCKYTP            MFGPEIRTLV LRLAQLITQA KQTAKSISDQ YVESPTGRSF LSWLTFGLTD TNSCYPANDL            DEIGQDSIRK TDEYLEKALE YLRQIFRLSE AQLAQLTLAL GSARDENGKQ QLPDCIVGEE            GLILTPLGRY QIINGLRRFE IEYQGDLELQ PIRSYEITSL VRALFRLSSA INRRFAGQMA</p>

## Product Details

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ALCSRNDFLG SFCRYHLTEP ALSNRHLLSP VGRRQVTNPA RGPRLSLRFL GSYRTL LLLL  
MAFFVASLFC IGPLSCSLLL VLGYYLYAIA MTL LTERGKL HQL **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.**

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: SMPD4

Alternative Name: Smpd4 ([SMPD4 Products](#))

Background: Sphingomyelin phosphodiesterase 4 (EC 3.1.4.12) (Neutral sphingomyelinase 3) (nSMase-3) (nSMase3) (Neutral sphingomyelinase III),FUNCTION: Catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide (PubMed:25180167). It has a relevant role in the homeostasis of membrane sphingolipids, thereby influencing membrane integrity, and endoplasmic reticulum organization and function. May sensitize cells to DNA damage-induced apoptosis. In skeletal muscle, mediates TNF-stimulated oxidant production

## Target Details

(PubMed:25180167). {ECO:0000250|UniProtKB:Q9NXE4, ECO:0000269|PubMed:25180167}.

Molecular Weight: 93.3 kDa

UniProt: [Q6ZPR5](#)

## 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.

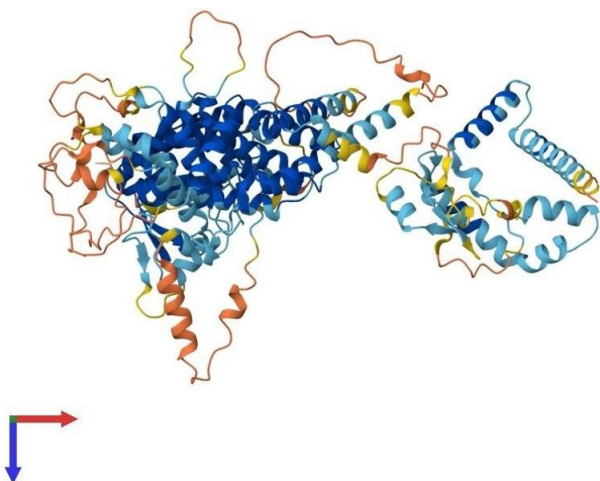
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

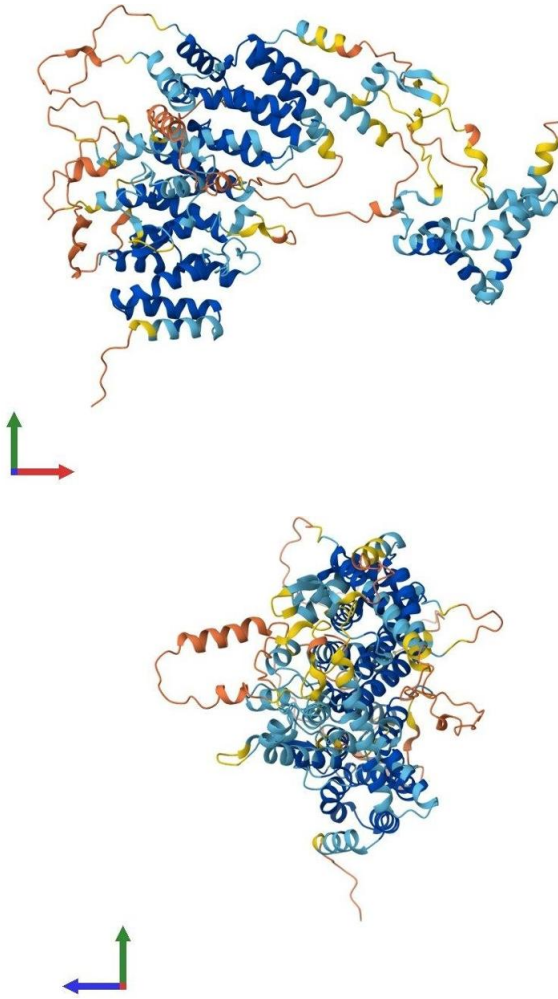
Expiry Date: 12 months

## Images



### Protein Structure

**Image 1.** AlphaFold protein structure prediction of Mouse Recombinant Smpd4 Protein, UniprotID Q6ZPR5



### Protein Structure

**Image 2.** AlphaFold protein structure prediction of Mouse Recombinant Smpd4 Protein, UniprotID Q6ZPR5

### Protein Structure

**Image 3.** AlphaFold protein structure prediction of Mouse Recombinant Smpd4 Protein, UniprotID Q6ZPR5