

Datasheet for ABIN7551042  
**PSMD14 Protein (AA 1-310) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PSMD14
Protein Characteristics:	AA 1-310
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSMD14 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat PSMD14 Protein expressed in mammalien cells.
Sequence:	MDRLLRLGGG MPGLGQGPPPT DAPAVDTAEQ VYISSLALLK MLKHGRAGVP MEVMGLMLGE FVDDYTVRVI DVFAMPQSGT GVSVEAVDPV FQAKMLDMLK QTGRPEMVVG WYHSHPGFGC WLSGVDINTQ QSFEALSERA VAVVVDPIQS VKGKVVIDAF RLINANMMVL GHEPRQTTSN LGHLNKPSIQ ALIHGLNRHY YSITINYRKN ELEQKMLLNL HKKSWMEGLT LQDYSEHCKH NESVVKEMLE LAKNYNKAVE EEDKMTPEQL AIKNVGKQDP KRHLEEHVDV LMTSNIVQCL AAMLDTVVFK <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>

Characteristics:	Key Benefits: <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li></ul>
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## Product Details

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- 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
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## Target Details

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Target:	PSMD14
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Alternative Name:	PSMD14 ( <a href="#">PSMD14 Products</a> )
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Background:	<p>26S proteasome non-ATPase regulatory subunit 14 (EC 3.4.19.-) (26S proteasome regulatory subunit RPN11) (26S proteasome-associated PAD1 homolog 1),FUNCTION: Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. The PSMD14 subunit is a metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains within the complex. Plays a role in response to double-strand breaks (DSBs): acts as a regulator of non-homologous end joining (NHEJ) by cleaving 'Lys-63'-linked polyubiquitin, thereby promoting retention of JMJD2A/KDM4A on chromatin and restricting TP53BP1 accumulation. Also involved in homologous recombination repair by promoting RAD51 loading. {ECO:0000269 PubMed:1317798, ECO:0000269 PubMed:22909820, ECO:0000269 PubMed:9374539}.</p>
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Molecular Weight:	34.6 kDa
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## Target Details

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UniProt: [O00487](#)

Pathways: [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [M Phase](#), [Positive Regulation of Endopeptidase Activity](#), [Synthesis of DNA](#), [Ubiquitin Proteasome Pathway](#)

## 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.

Restrictions: For Research Use only

## Handling

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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