

Datasheet for ABIN3094827

PSMD2 Protein (AA 1-908) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	PSMD2
Protein Characteristics:	AA 1-908
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSMD2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	<p>MEEGGRDKAP VQPQQSPAAA PGGTDEKPSG KERRDAGDKD KEQELSEEDK QLQDELEMLV ERLGEKDTSL YRPALEELRR QIRSSTTSMT SVPKPLKFLR PHYGKLKEIY ENMAPGENKR FAADIISVLA MTMSGERECL KYRLVGSQEE LASWGHEYVR HLAGEVAKEW QELDDAEKVQ REPLTLVKE IVPYNMAHNA EHEACDLLME IEQVDMLEKD IDENAYAKVC LYLTSCVNYV PEPENSALLR CALGVFRKFS RFPEALRLAL MLNDMELVED IFTSCKDVVV QKQMAFMLGR HGVFLELSED VEEYEDLTEI MSNVQLNSNF LALARELDIM EPKVPDDIYK THLENNRFGG SGSQVDSARM NLAASFVNGF VNAAFGQDKL LTDDGNKWLY KNKDHGMLSA AASLGMILLW DVDGGLTQID KYLYSSEDYI KSGALLACGI VNSGVRNECD PALALLSDYV LHNSNTMRLG SIFGLGLAYA GSNREDVLTLLPVMGDSKS SMEVAGVTAL ACGMIAVGSC NGDVTSTILQ TIMEKSETEL KDTYARWLPL GLGLNHLGKG EAIEAILAAL EVVSEPFERSF ANTLVDVCAY AGSGNVLKVQ QLLHICSEHF DSKEEKEDKD KKEKKDKDKK EAPADMGAHQ GVAVLGIALI AMGEEIGAEM ALRTFGHLLR YGPTLRRRAV PLALALISVS NPRLNILDTL SKFSHDADPE</p>
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VSYSNIFAMG MVGSGTNNAR LAAMLRLAQ YHAKDPNNLF MVRLAQGLTH LGKGTLTLCPL
YHSDRQLMSQ VAVAGLLTVL VSFLDVRNII LGKSHYVLYG LVAAMQPRML VTFDEELRPL
PVSVRVGQAV DVVGQAGKPK TITGFQTHTT PVLLAHGERA ELATEEFLPV TPILEGFVIL
RKNPNYDL

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

Product Details

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	PSMD2
Alternative Name:	PSMD2 (PSMD2 Products)
Background:	26S proteasome non-ATPase regulatory subunit 2 (26S proteasome regulatory subunit RPN1) (26S proteasome regulatory subunit S2) (26S proteasome subunit p97) (Protein 55.11) (Tumor necrosis factor type 1 receptor-associated protein 2),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. {ECO:0000269 PubMed:1317798}., FUNCTION: Binds to the intracellular domain of tumor necrosis factor type 1 receptor. The binding domain of TRAP1 and TRAP2 resides outside the death domain of TNFR1.
Molecular Weight:	100.2 kDa
UniProt:	Q13200
Pathways:	Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA , Ubiquitin Proteasome Pathway

Application Details

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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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process