

Datasheet for ABIN3133615

**PCSK4 Protein (AA 111-655) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	PCSK4
Protein Characteristics:	AA 111-655
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PCSK4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence: SLVPTDPWF SKQWYMNKEI QQDLNILKAW NQGLTGRGVV ISILDDGIEK DHPDLWANYD  
PLASYDFNDY DPDPQPRYTP NDENRHGTRC AGEVSATANN GFCGAGVAFN ARIGGVRLMD  
GAITDIVEAQ SLSLQPQHIH IYSASWGPED DGRTVDGPGL LTQEAFRRGV TKGRQGLGTL  
FIWASGNGGL HYDNCNCDGY TNSIHTLSVG STTRQGRVPW YSEACASTFT TTFSSGVVTD  
PQIVTTDLHH QCTDKHTGTS ASAPLAAGMI ALALEANPLL TWRDLQHLVV RASRPAQLQA  
EDWRINGVGR QVSHHYGYGL LDAGLLVDLA RVWLPTKPQK KCAIRVVHTP TPILPRMLVP  
KNVTACSDGS RRRLIRSLEH VQVQLSLSYS RRGDLEIFLT SPMGTRSTLV AIRPLDISGQ  
GYNNWIFMST HYWDEDPQGL WTLGLENKGY YFNTGTLYYY TLLYGTAED MTARPQAPQV  
TSRARACVQR DTEGLCQESH SPLSILAGLC LISSQQWWWL YSHPQQPVTE GQASCHPPVT  
PAAAA

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Mouse Pcsk4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
  - 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

- Purification:
- Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

Target:	PCSK4
Alternative Name:	Pcsk4 ( <a href="#">PCSK4 Products</a> )
Background:	<p>Proprotein convertase involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues. In males, important for ADAM2 processing as well as other acrosomal proteins with roles in fertilization and critical for normal fertilization events such as sperm capacitation, acrosome reaction and binding of sperm to zona pellucida (PubMed:9192653, PubMed:16371590, PubMed:19342015, PubMed:21302280). Plays also a role in female fertility, involved in the regulation of trophoblast migration and placental development, may be through the proteolytical processing and activation of proteins such as IGF2 (By similarity). May also participate to folliculogenesis in the ovaries (PubMed:11164898). {ECO:0000250 UniProtKB:Q6UW60, ECO:0000269 PubMed:11164898, ECO:0000269 PubMed:16371590, ECO:0000269 PubMed:19342015, ECO:0000269 PubMed:21302280, ECO:0000269 PubMed:9192653}.</p>
Molecular Weight:	61.1 kDa Including tag.
UniProt:	<a href="#">P29121</a>

## 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.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

## Handling

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Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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