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Presenilin 1 Protein (PSEN1) (AA 299-467) (rho-1D4 tag)



Image



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Overview		
Quantity:	1 mg	
Target:	Presenilin 1 (PSEN1)	
Protein Characteristics:	AA 299-467	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This Presenilin 1 protein is labelled with rho-1D4 tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	
Product Details		
Sequence:	AEGDPEAQRR VSKNSKYNAE STERESQDTV AENDDGGFSE EWEAQRDSHL GPHRSTPESR	
	AAVQELSSSI LAGEDPEERG VKLGLGDFIF YSVLVGKASA TASGDWNTTI ACFVAILIGL	
	CLTLLLLAIF KKALPALPIS ITFGLVFYFA TDYLVQPFMD QLAFHQFYI	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.	
	Human PSEN1 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.	

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 receival 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	Presenilin 1 (PSEN1)
Alternative Name:	PSEN1 (PSEN1 Products)
Background:	Probable catalytic subunit of the gamma-secretase complex, an endoprotease complex that
	catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors

	and APP (beta-amyloid precursor protein). Requires the other members of the gamma-	
	secretase complex to have a protease activity. May play a role in intracellular signaling and	
	gene expression or in linking chromatin to the nuclear membrane. Stimulates cell-cell adhesion	
	though its association with the E-cadherin/catenin complex. Under conditions of apoptosis or	
	calcium influx, cleaves E-cadherin promoting the disassembly of the E-cadherin/catenin	
	complex and increasing the pool of cytoplasmic beta-catenin, thus negatively regulating Wnt	
	signaling. May also play a role in hematopoiesis. {ECO:0000269 PubMed:10206644,	
	ECO:0000269 PubMed:10545183, ECO:0000269 PubMed:10593990,	
	ECO:0000269 PubMed:10811883, ECO:0000269 PubMed:10899933,	
	ECO:0000269 PubMed:11226248, ECO:0000269 PubMed:15341515,	
	ECO:0000269 PubMed:16305624}.	
Molecular Weight:	19.7 kDa Including tag.	
UniProt:	P49768	
Pathways:	Notch Signaling, EGFR Signaling Pathway, Synaptic Vesicle Exocytosis, Dicarboxylic Acid	
	Transport	
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 gurantee	
	though.	
Comment:	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	
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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	
Storage Comment:	Store at -80°C.	

Expiry Date:

Unlimited (if stored properly)

Images



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