



Datasheet for ABIN3094330

## PALLD Protein (AA 1-1383) (Strep Tag)



[Go to Product page](#)

### 1 Image

### Overview

Quantity:	1 mg
Target:	PALLD
Protein Characteristics:	AA 1-1383
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This PALLD protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence:	MSGTSSHESF YDSLSDMQEE SKNTDFPGL SAFLSQEEIN KSLDLARRAI ADSETEDFDS EKEISQIFST SPASLCEHPS HKETKLGEHA SRRPQDNRST PVQPLAEKQT KSISSPVSKR KPAMSPLLTR PSYIRSLRKA EKRGAKTPST NVKPKTPHQR KGGPQSQLCD KAANLIEELT SIFKAAKPRN RSPNGESSSP DSGYLSPKNQ PSALLSASAS QSPMEDQGEM EREVKGPGAR HCYQDNQDLA VPHNRKSHPQ PHSALHFPA PRFIQKLRSQ EVAEGSRVYL ECRVTGNPTP RVRWFCEGKE LHNTPDIQIH CEGGDLHTLI IAEAFEDDTG RYTCLATNPS GSDTTSAEVF IEGASSTDSD SESLAFKSRA GAMPQAQKKT TSVSLTIGSS SPKTGVTTAV IQPLSVPVQQ VHSPTSYLCR PDGTTTAYFP PVFTKELQNT AVAEGQVVVL ECRVRGAPPL QVQWFRQGSE IQDSPDFRIL QKKPRSTAEP EEICTLVIAE TFPEDAGIFT CSARNDYGS A TSTAQLVVTS ANTENCSYES MGESNNNDHFQ HFPPPPPPILE TSSLELASKK PSEIQQVNNP ELGLSRAALQ MQFNAAERET NGVHPSRGVN GLINGKANSN KSLPTPAVLL SPTKEPPPLL AKPKLDPLKL QQLQNQIRLE QEAGARQPPP APRSAPPSSPP FPPPPAFPEL AACTPPASPE PMSALASRSA
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## Product Details

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PAMQSSGSFN YARPQFIAA QNLGPASGHG TPASSPSSSS LPSPMSPTPR QFGRAPVPPF  
AQPFGAEPEA PWGSSSPSPP PPPPPVFSPT AAFPVPDVFP LPPPPPPLPS PGQASHCSSP  
ATRGHHSQTP AAFLSALLPS QPPPAAVNAL GLPKGVTPAG FPKKASRTAR IASDEEIQGT  
KDAVIQDLER KLRFKEDLLN NGQPRLTYEE RMARRLLGAD SATVFNIQEP EEETANQEYK  
VSSCEQRRLIS EIEYRLERSP VDESGDEVQY GDVPVENGMA PFFEMKLKHY KIFEGMPVTF  
TCRVAGNPKP KIYWFKDGGQ ISPKSDHYTI QRDLGTCSEL HTTASTLDDD GNYTIMAANP  
QGRISCTGRL MVQAVNQRGR SPRSPSGHPH VRRPRRSRSRD SGDENEPIQE RFFRPHFLQA  
PGDLTVQEGK LCRMDCVKSG LPTPDLSWQL DGKPVRPDSA HKMLVRENGV HSLIIEPVTS  
RDAGIYTCIA TNRAGQNSFS LELVVAKEA HKPPVIEKL QNTGVADGYP VRLECRVLGV  
PPPQIFWKKE NESLTHSTDV VSMHQDNHGY ICLLIQGATK EDAGWYTSA KNEAGIVSCT  
ARLDVYTQWH QQSQSTKPKK VRPSASRYAA LSDQGLDIKA AFQPEANPSH LTNTALVES EDL

**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.**

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### 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

## Product Details

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

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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

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Target:	PALLD
Alternative Name:	PALLD ( <a href="#">PALLD Products</a> )
Background:	Palladin (SIH002) (Sarcoma antigen NY-SAR-77), FUNCTION: Cytoskeletal protein required for organization of normal actin cytoskeleton. Roles in establishing cell morphology, motility, cell adhesion and cell-extracellular matrix interactions in a variety of cell types. May function as a scaffolding molecule with the potential to influence both actin polymerization and the assembly of existing actin filaments into higher-order arrays. Binds to proteins that bind to either monomeric or filamentous actin. Localizes at sites where active actin remodeling takes place, such as lamellipodia and membrane ruffles. Different isoforms may have functional differences. Involved in the control of morphological and cytoskeletal changes associated with dendritic cell maturation. Involved in targeting ACTN to specific subcellular foci. {ECO:0000269 PubMed:11598191, ECO:0000269 PubMed:15147863, ECO:0000269 PubMed:17537434}.

## Target Details

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Molecular Weight: 150.6 kDa

UniProt: [Q8WX93](#)

## 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.

Comment: 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!

Restrictions: For Research Use only

## Handling

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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