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Datasheet for ABIN3129639

## ARPP21 Protein (AA 2-807) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	ARPP21
Protein Characteristics:	AA 2-807
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARPP21 protein is labelled with His tag.
Application:	ELISA, Crystallization (Crys), SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: SEQGGLTPTI LEEGQTEPES APENGILKSE SLDEEEKLEL QRRLAAQNQE RRKSKSGAGK  
 GKLTRSLAVC EESSARSGGE SHQDQESIHL QLSSFPSLQE EDKSRKDDSE REKEKDNRE  
 KLSERP KIRM LSKDCSQEYT DSTGIDLHGF LINTLKNNSR DRMILLKMEQ EMIDFIADSN  
 NHYKKFPQMS SYQRMLVHRV AAYFGLDHNV DQTGKSVIIN KTSSTRIPEQ RFCEHLKDEK  
 SEESQKRFIL KRDNSSIDKE DNQNRMHFPR DRRRSKSIEE REEEYQRVRE RIFAHDSVCS  
 QESFLDNSR LQEDMHICNE TYKKRQLFRA HRDSSGRTSG SRQSSSETEL RWPDPHQRAWS  
 STDS DSSNRN LKPTMTKTAS FGGITVLTRG DSTSSTRSAG KLSKTGSESS SSAGSSGSL S  
 RTHPQSTALT SSVAAGSPGC MAYSENGMGG QVPPSSTSYI LLPLESATGI PPGSILLNPH  
 TGQPFVNDPG TPAIYNPPGS QQTLRGTVGG QPQPPQQQP SPQPQQVQA SQPQMAGPLV  
 TQREELAAQF SQLSMSRQSS GDTPEPPSGT VYPASLLPQT AQPQSYVITS AGQQLSTGGF  
 SDSGPPISQQ VLQAPPSPQG FVQQPPPAQM SVYYYPSGQY PTSTSQQYRP LASVQYSAQR  
 SQQIPQTTQQ AGYQPVLSGQ QGFQGMMGVQ QSAHSQGVMS SQQGAPVHGV MVSYPMTSSY

QVPMTQGSQA VPQQTYQPPI MLPSQAGQGS LPATGMPVYC NVTPPNPQNN LRLMGPHCPS  
STVPVMSASC RTNCGNVSNA GWQVKF

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

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Arpp21 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.

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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.

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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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Endotoxin Level:

Protein is endotoxin free.

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## Product Details

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Grade: Crystallography grade

## Target Details

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Target: ARPP21

Alternative Name: Arpp21 ([ARPP21 Products](#))

Background: Isoform 2 may act as a competitive inhibitor of calmodulin-dependent enzymes such as calcineurin in neurons. {ECO:0000269|PubMed:15499021}.

Molecular Weight: 89.4 kDa Including tag.

UniProt: [Q9DCB4](#)

## 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: 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

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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)



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