

Datasheet for ABIN3109892

**ABCC4 Protein (AA 1-1325) (rho-1D4 tag)****1** Image[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	ABCC4
Protein Characteristics:	AA 1-1325
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ABCC4 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	MLPVYQEVKP NPLQDANLCS RVFFWWLNPL FKIGHKRRLE EDDMYSVLPE DRSQHLGEEL QGFWDKEVLR AENDAQKPSL TRAIKCYWK SYLVLGIFTL IEESAKVIQP IFLGKIINYF ENYDPMDSVA LNTAYAYATV LTFCTLILAI LHHLYFYHVQ CAGMRLRVAM CHMIYRKALR LSNMAMGKTT TGQIVNLLSN DVNKFQVTV FLHFLWAGPL QAI AVTALLW MEIGISCLAG MAVLIILLPL QSCFGKLFSS LRSKTATFTD ARIRTMNEVI TGIRIIMYA WEKSFSNLIT NLRKKEISKI LRSSCLRGMN LASFFSASKI IVFVTFTTYV LLGSVITASR VFVAVTLYGA VRLTVTLFFP SAIERVSEAI VSIRRIQTFL LLDEISQRNR QLPSDGKKMV HVQDFTAFWD KASETPTLQG LSFTVRPGEL LAVVGPVGAG KSSLLSAVLG ELAPSHGLVS VHGRYAYSQ QPWVFSGLTR SNILFGKKYE KERYEKVIK CALKKDLQLL EDGDLTVIGD RGTTLSGGQK ARVNLARAVY QDADIYLLDD PLSAVDAEVS RHLFELCICQ ILHEKITILV THQLQYLKAA SQILILKDGK MVQKGTYTEF LKSGIDFGSL LKKDNEESEQ PPVPGTPTLR NRTFSESSVW SQQSSRPSLK DGALESQDTE NVPVTLSEEN RSEGKVG FQA YKNYFRAGAH WIVFIFLILL NTAAQVAYVL
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QDWWSYWAN KQSMNLVTVN GGGNVTEKLD LNWYLGIIYSG LTVATVLFGI ARSLLVIFYVL  
VNSSQTLHNK MFESILKAPV LFFDRNPIGR ILNRFSKDIG HLDDLLPLTF LDFIQTLQV  
VGWVSVAVAV IPWIAIPLVP LGIIFILRR YFLETSRDVK RLESTTRSPV FSHLSSSLQG  
LWTIRAYKAE ERCQELFDAH QDLHSEAWFL FLTTSRWFAV RLDAICAMFV IIVAFGSLIL  
AKTL DAGQVG LALSIALTLM GMFQWCVRQS AEVENMMISV ERVIEYTDLE KEAPWEYQKR  
PPPAWPHEGV IIFDNVNFMY SPGGPLVLKH LTALIKSQEK VGIVGRTGAG KSSLISALFR  
LSEPEGKIWI DKILTEIGL HDLRKKMSII PQEPVLFTGT MRKNLDPFNE HTDEELWNAL  
QEVQLKETIE DLPGKMDTEL AESGSNFSVG QRQLVCLARA ILRKNQILII DEATANVDPR  
TDELIQKKIR EKFAHCTVLT IAHRLNTIID SDKIMVLDSG RLKEYDEPYV LLQNKESLFY  
KMQVQLGKAE AAALTETAKQ VYFKRNYPHI GHTDHMTNT SNGQPSTLTI FETAL

**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.
- Human ABCC4 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:

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

## Product Details

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.
3. 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.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin-free.
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Grade:	Crystallography grade
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## Target Details

Target:	ABCC4
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Alternative Name:	ABCC4 ( <a href="#">ABCC4 Products</a> )
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Background:	May be an organic anion pump relevant to cellular detoxification.
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Molecular Weight:	150.7 kDa Including tag.
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UniProt:	<a href="#">O15439</a>
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## 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:	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.
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
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## Handling

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