

Datasheet for ABIN3087500
RPH3A Protein (AA 1-694) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	RPH3A
Protein Characteristics:	AA 1-694
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPH3A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MTD TVFSNSS NRWMYPSDRP LQSN DKEQLQ AGWSVHPGGQ PDRQRKQEEL TDEEKEIINR</p> <p>VIARAEKMEE MEQERIGRLV DRLENMRKNV AGDGVNRCIL CGEQLGMLGS ACVVCEDCKK</p> <p>NVCTKCGVET NNRLHSHWLC KICIEQREVW KRSGAWFFKG FPKQVLPQPM PIKKTQPQQP</p> <p>VSEPAAPEQP APEPKHPARA PARGDSEDRR GPGQKTGPDP ASAPGRGNYG PPVRRASEAR</p> <p>MSSSSRDSES WDHSGGAGDS SRSPAGLRRA NSVQASRPAP GSVQSPAPPQ PGQPGTPGGS</p> <p>RPGPGPAGRF PDQKPEVAPS DPGTTAPPRE ERTGGVGGYP AVGAREDRMS HPSGPPYSQAS</p> <p>AAAPQPAAAR QPPPPPEEEEE EANSYDSDEA TTLGALEFSL LYDQDNSSLQ CTIIKAKGLK</p> <p>PMDSNGLADP YVKLHLLPGA SKSNKLRTKT LRNTRNPIWN ETLVYHGITD EDMQRKTLRI</p> <p>SVCDEDKFGH NEFIGETRFS LKKLKPNQRK NFNICLERVI PMKRAGTTGS ARGMALYEEE</p> <p>QVERVGDIIE RGKILVSLMY STQQGGLIVG IIRCVHLAAM DANGYSDPFV KLWLKPDMGK</p> <p>KAKHKTQIKK KTLNPEFNEE FFYDIKHSDL AKKSLDISVW DYDIGKSNDY IGGCQLGISA</p>

KGERLKHWEY CLKNKDKKIE RWHQLQENH VSSD

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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: RPH3A

Alternative Name: RPH3A ([RPH3A Products](#))

Background: Rabphilin-3A (Exophilin-1),FUNCTION: Plays an essential role in docking and fusion steps of regulated exocytosis (By similarity). At the presynaptic level, RPH3A is recruited by RAB3A to the synaptic vesicle membrane in a GTP-dependent manner where it modulates synaptic vesicle trafficking and calcium-triggered neurotransmitter release (By similarity). In the post-synaptic compartment, forms a ternary complex with GRIN2A and DLG4 and regulates NMDA receptor stability. Also plays a role in the exocytosis of arginine vasopressin hormone (By similarity). {ECO:0000250|UniProtKB:P47709}.

Molecular Weight: 76.9 kDa

UniProt: [Q9Y2J0](#)

Pathways: [Synaptic Vesicle Exocytosis](#)

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: 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

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months