Datasheet for ABIN3095018

RIN1 Protein (AA 1-783) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RIN1
Protein Characteristics:	AA 1-783
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RIN1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MESPGESGAG SPGAPSPSSF TTGHLAREKP AQDPLYDVPN ASGGQAGGPQ RPGRVVSLRE RLLLTRPVWL QLQANAAAAL HMLRTEPPGT FLVRKSNTRQ CQALCMRLPE ASGPSFVSSH YILESPGGVS LEGSELMFPD LVQLICAYCH TRDILLLPLQ LPRAIHHAAT HKELEAISHL GIEFWSSSLN IKAQRGPAGG PVLPQLKARS PQELDQGTGA ALCFFNPLFP GDLGPTKREK FKRSFKVRVS TETSSPLSPP AVPPPPVPVL PGAVPSQTER LPPCQLLRRE SSVGYRVPAG SGPSLPPMPS LQEVDCGSPS SSEEEGVPGS RGSPATSPHL GRRRPLLRSM SAAFCSLLAP ERQVGRAAAA LMQDRHTAAG QLVQDLLTQV RAGPEPQELQ GIRQALSRAR AMLSAELGPE KLLSPKRLEH VLEKSLHCSV LKPLRPILAA RLRRRLAADG SLGRLAEGLR LARAQGPGAF GSHLSLPSPV ELEQVRQKLL QLLRTYSPSA QVKRLLQACK LLYMALRTQE GEGAGADEFL PLLSLVLAHC DLPELLLEAE YMSELLEPSL LTGEGGYYLT SLSASLALLS GLGQAHTLPL SPVQELRRSL SLWEQRRLPA THCFQHLLRV AYQDPSSGCT SKTLAVPPEA SIATLNQLCA

TKFRVTQPNT FGLFLYKEQG YHRLPPGALA HRLPTTGYLV YRRAEWPETQ GAVTEEEGSG QSEARSRGEE QGCQGDGDAG VKASPRDIRE QSETTAEGGQ GQAQEGPAQP GEPEAEGSRA AEE

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:	RIN1
Alternative Name:	RIN1 (RIN1 Products)
Background:	Ras and Rab interactor 1 (Ras inhibitor JC99) (Ras interaction/interference protein 1),FUNCTION: Ras effector protein, which may serve as an inhibitory modulator of neuronal plasticity in aversive memory formation. Can affect Ras signaling at different levels. First, by competing with RAF1 protein for binding to activated Ras. Second, by enhancing signaling from ABL1 and ABL2, which regulate cytoskeletal remodeling. Third, by activating RAB5A, possibly by functioning as a guanine nucleotide exchange factor (GEF) for RAB5A, by exchanging bound GDP for free GTP, and facilitating Ras-activated receptor endocytosis. {ECO:0000269|PubMed:15886098, ECO:0000269|PubMed:9144171, ECO:0000269|PubMed:9208849}.
Molecular Weight:	84.1 kDa
UniProt:	Q13671

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!

Application Details

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