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Datasheet for ABIN3090649
RLTPR Protein (AA 1-1435) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RLTPR
Protein Characteristics:	AA 1-1435
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RLTPR protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAQTPDGISC ELRGEITRFL WPKEVELLLK TWLPGEGAVQ NHVLALLRWR AYLLHTTCPL LRVDCTFSYL EVQAMALQET PPQVTFELES LRELVEFFPG VAALEQLAQH VAAAIKKVFP RSTLGKLFRR PTPASMLARL ERSSPSESTD PCSPCGGFLE TYEALCDYNG FPFREEIQWD VDTIYHRQGC RHFSLGDFSH LGSRDALSV AALSYNLWFR CLSCVDMKLS LEVSEQILHM MSQSSHLEEL VLETCSLRGD FVRRLAQALA GHSSSGLREL SLAGNLLDDR GMTALSRHLE RCPGALRRLS LAQTGLTPRG MRALGRALAT NAAFDSTLTH LDLSGNPGAL GASEDSGGLY SFLSRPNVLS FLNLAGTDTA LDTVRGCSVG GWMTGRADWR AGRGGLGPPA GVANSLPPQL FAAVSRGCCT SLTHLDASRN VFSRTKSRAA PAALQLFLSR ARTLRHLGLA GCKLPPDALR ALLDGLALNT HLRDLHLDLS ACELSAGAQ VIQDLVCDAG AVSSLDLADN GFGSDMVTLV LAIGRSRSLR HVALGRNFNV RCKETLDDVL HRIVQLMQDD DCPLQSLSVA ESRLKLGASV LLRALATNPN LTALDISGNA MGDAGAKLLA KALRVNSRLR SVVWDRNHTS ALGLLDVAQA LEQNHSLKAM PLPLNDVAQA QRSRPELTAR AVHQIQACLL RNNRADPASS DHTTRLQPLG
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LVSDPSEQEV NELCQSVQEH VELLGCGAGP QGEAAVRQAE DAIQANANFSL SILPILYEAG
SSPSHHWQLG QKLEGLLRQV GEVCRQDIQD FTQATLDTAR SLCPQMLQGS SWREQLEGVL
AGSRGLPELL PEQLLQDAFT RLRDMRLSIT GTLAESIVAQ ALAGLSAARD QLVESLAQQA
TVTMPPALPA PDGGEPSLLE PGELEGLFFP EEKEEEEKEKD DSPPQKWPEL SHGLHLVPFI
HSAEEEEPE PELAAPGEDA EPQAGPSARG SPSPAAPGPP AGPLPRMDLP LAGQPLRHPT
RARPRRRQH HHRPPPGGPQ VPPALPQEGN GLSARVDEGV EEFFSKRLIQ QDRLWAPEED
PATEGGATPV PRTLKKGLT LFAFKKPRST RGPRTDLETS PGAAPRTRKT TFGDLLRPPT
RPSRGEELGG AEGDTSSDP AGRSRPRYTR DSKAYSMILL PAEEEEATLGA RPKRRPLER
GETELAPSFE QRVQVMLQRI GVSRRSGGAE GKRKQSKDGE IKKAGSDGDI MDSSTEAPPI
SIKSRTHSVS ADPSCRPGPG SQGPESATWK TLGQQLNAEL RSRGWGQQDG PGPPSPGQSP
SPCRTSPSPD SLGLPEDPCL GPRNEDGQLR PRPLSAGRRA VSVHEDQLQA PAERPLRLQR
SPVLKRRPKL EAPPSPSLGS GLGTEPLPPQ PTEPSSPERS PPSPATDQRG GGPNP

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 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

Product Details

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 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.

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

Target:	RLTPR
Alternative Name:	CARMIL2 (RLTPR Products)
Background:	Capping protein, Arp2/3 and myosin-I linker protein 2 (Capping protein regulator and myosin 1 linker 2) (F-actin-uncapping protein RLTPR) (Leucine-rich repeat-containing protein 16C) (RGD, leucine-rich repeat, tropomodulin and proline-rich-containing protein),FUNCTION: Cell membrane-cytoskeleton-associated protein that plays a role in the regulation of actin polymerization at the barbed end of actin filaments. Prevents F-actin heterodimeric capping protein (CP) activity at the leading edges of migrating cells, and hence generates uncapped barbed ends and enhances actin polymerization (PubMed:26466680). Plays a role in cell protrusion formations, involved in cell polarity, lamellipodial assembly, membrane ruffling and macropinosome formations (PubMed:19846667, PubMed:26578515, PubMed:26466680). Involved as well in cell migration and invadopodia formation during wound healing

Target Details

(PubMed:19846667, PubMed:26578515, PubMed:26466680). Required for CD28-mediated stimulation of NF-kappa-B signaling, involved in naive T cells activation, maturation into T memory cells, and differentiation into T helper and T regulatory cells (PubMed:27647349, PubMed:27647348, PubMed:28112205). {ECO:0000269|PubMed:19846667, ECO:0000269|PubMed:26466680, ECO:0000269|PubMed:26578515, ECO:0000269|PubMed:27647348, ECO:0000269|PubMed:27647349, ECO:0000269|PubMed:28112205}.

Molecular Weight: 154.7 kDa

UniProt: [Q6F5E8](#)

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)