Datasheet for ABIN3116010

LPPR4 Protein (AA 1-763) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	LPPR4
Protein Characteristics:	AA 1-763
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LPPR4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MQRAGSSGGR GECDISGAGR LGLEEAARLS CAVHTSPGGG RRPGQAAGMS AKERPKGKVI KDSVTLLPCF YFVELPILAS SVVSLYFLEL TDVFKPVHSG FSCYDRSLSM PYIEPTQEAI PFLMLLSLAF AGPAITIMVG EGILYCCLSK RRNGVGLEPN INAGGCNFNS FLRRAVRFVG VHVFGLCSTA LITDIIQLST GYQAPYFLTV CKPNYTSLNV SCKENSYIVE DICSGSDLTV INSGRKSFPS QHATLAAFAA VYVSMYFNST LTDSSKLLKP LLVFTFIICG IICGLTRITQ YKNHPVDVYC GFLIGGGIAL YLGLYAVGNF LPSDESMFQH RDALRSLTDL NQDPNRLLSA KNGSSSDGIA HTEGILNRNH RDASSLTNLK RANADVEIIT PRSPMGKENM VTFSNTLPRA NTPSVEDPVR RNASIHASMD SARSKQLLTQ WKNKNESRKL SLQVIEPEPG QSPPRSIEMR SSSEPSRVGV NGDHHGPGNQ YLKIQPGAVP GCNNSMPGGP RVSIQSRPGS SQLVHIPEET QENISTSPKS SSARAKWLKA AEKTVACNRS NSQPRIMQVI AMSKQQGVLQ SSPKNTEGST VSCTGSIRYK TLTDHEPSGI VRVEAHPENN RPIIQIPSTE GEGSGSWKWK APEKGSLRQT

YELNDLNRDS ESCESLKDSF GSGDRKRSNI DSNEHHHHGI TTIRVTPVEG SEIGSETLSI SSSRDSTLRR KGNIILIPER SNSPENTRNI FYKGTSPTRA YKD

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:	LPPR4
Alternative Name:	PLPPR4 (LPPR4 Products)
Background:	Phospholipid phosphatase-related protein type 4 (Brain-specific phosphatidic acid phosphatase-like protein 1) (Inactive 2-lysophosphatidate phosphatase PLPPR4) (Lipid phosphate phosphatase-related protein type 4) (Plasticity-related gene 1 protein) (PRG-1),FUNCTION: Postsynaptic density membrane protein that indirectly regulates glutamatergic synaptic transmission through lysophosphatidic acid (LPA)-mediated signaling pathways. Binds lysophosphatidic acid (LPA) and mediates its internalization into cells. Could act as receptor or a transporter of this lipid at the post-synaptic membrane (By similarity). Modulates lysophosphatidic acid (LPA) activity in neuron axonal outgrowth during development by attenuating phospholipid-induced axon collapse (By similarity). {ECO:0000250|UniProtKB:Q7TMB7, ECO:0000250|UniProtKB:Q7TME0}.
Molecular Weight:	83.0 kDa
UniProt:	Q7Z2D5

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