Datasheet for ABIN3116029

GPR155 Protein (AA 1-870) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	GPR155
Protein Characteristics:	AA 1-870
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR155 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MNSNLPAENL TIAVNMTKTL PTAVTHGFNS TNDPPSMSIT RLFPALLECF GIVLCGYIAG RANVITSTQA KGLGNFVSRF ALPALLFKNM VVLNFSNVDW SFLYSILIAK ASVFFIVCVL TLLVASPDSR FSKAGLFPIF ATQSNDFALG YPIVEALYQT TYPEYLQYIY LVAPISLMML NPIGFIFCEI QKWKDTQNAS QNKIKIVGLG LLRVLQNPIV FMVFIGIAFN FILDRKVPVY VENFLDGLGN SFSGSALFYL GLTMVGKIKR LKKSAFVVLI LLITAKLLVL PLLCREMVEL LDKGDSVVNH TSLSNYAFLY GVFPVAPGVA IFATQFNMEV EIITSGMVIS TFVSAPIMYV SAWLLTFPTM DPKPLAYAIQ NVSFDISIVS LISLIWSLAI LLLSKKYKQL PHMLTTNLLI AQSIVCAGMM IWNFVKEKNF VGQILVFVLL YSSLYSTYLW TGLLAISLFL LKKRERVQIP VGIIIISGWG IPALLVGVLL ITGKHNGDSI DSAFFYGKEQ MITTAVTLFC SILIAGISLM CMNQTAQAGS YEGFDQSQSH KVVEPGNTAF EESPAPVNEP ELFTSSIPET SCCSCSMGNG ELHCPSIEPI ANTSTSEPVI PSFEKNNHCV SRCNSQSCIL AQEEEQYLQS GDQQLTRHVL

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LCLLLIIGLF ANLSSCLWWL FNQEPGRLYV ELQFFCAVFN FGQGFISFGI FGLDKHLIIL PFKRRLEFLW NNKDTAENRD SPVSEEIKMT CQQFIHYHRD LCIRNIVKER RCGAKTSAGT FCGCDLVSWL IEVGLASDRG EAVIYGDRLV QGGVIQHITN EYEFRDEYLF YRFLQKSPEQ SPPAINANTL QQERYKEIEH SSPPSHSPKT

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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	GPR155
Alternative Name:	GPR155 (GPR155 Products)
Background:	Lysosomal cholesterol signaling protein (LYCHOS) (G-protein coupled receptor PGR22),FUNCTION: Cholesterol-binding protein that acts as a regulator of mTORC1 signaling pathway (PubMed:36007018). Acts as a sensor of cholesterol to signal cholesterol sufficiency to mTORC1: in presence of cholesterol, binds cholesterol, leading to disrupt interaction between the GATOR1 and KICSTOR complexes and promote mTORC1 signaling (PubMed:36007018). Upon cholesterol starvation, GPR155/LYCHOS is unable to perturb the association between GATOR1 and KICSTOR, leading to mTORC1 signaling inhibition (PubMed:36007018). {ECO:0000269|PubMed:36007018}.
Molecular Weight:	96.9 kDa
UniProt:	Q7Z3F1

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

Application Details

	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

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