Datasheet for ABIN3129311

GPR172A Protein (AA 1-450) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	GPR172A
Protein Characteristics:	AA 1-450
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR172A protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAAPPLGRLV LTHLLVALFG MGSWAAVNGI WVELPVVVKE LPEGWSLPSY LSVLVALGNL GLLLVTLWRR LARGKGEQVP IRVVQGLGIV GTGLLASLWN HVAPVAGKPY SVAFLTLAFV LALACCASNV TFLPFLSHLP PPFLRSFFLG QGLSALLPCV LALGQGVGRL ECLHVPANRT TGPPIEVSPI NFPERFSATT FFWVLTALLG TSAAAFQGLL LLLPSPTSEP TTGTGLRVET PGTEEEEEEE EASPLQEPPG QVAGIVSSPD PKAHQLFSSR SACLLGLLAI TNALTNGVLP AVQSFSCLPY GRLAYHLAVV LGSCANPLAC FLAMAVLCRS LAGLCGLSLL GMLLGSYLMT LAALSPCPPL VGTSAGVVLV VLSWVLCAGT FSYIKVAISS MLHSGGRPAL LAAGVAIQVG SLLGAVAMFP PTSIYRVFRS GKDCVDQCGL **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.**

Product Details

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

Target Details

Target:	GPR172A
Alternative Name:	Slc52a2 (GPR172A Products)
Background:	Solute carrier family 52, riboflavin transporter, member 2 (Porcine endogenous retrovirus A receptor 2 homolog) (PERV-A receptor 2 homolog) (Protein GPR172B) (Riboflavin transporter 1) (mRFT1),FUNCTION: Plasma membrane transporter mediating the uptake by cells of the water soluble vitamin B2/riboflavin that plays a key role in biochemical oxidation-reduction reactions of the carbohydrate, lipid, and amino acid metabolism. May also act as a receptor for 4-hydroxybutyrate. {ECO:0000250|UniProtKB:Q9HAB3}.
Molecular Weight:	46.9 kDa
UniProt:	Q9D8F3
Pathways:	Nuclear Receptor Transcription Pathway, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

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

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Handling

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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