

Datasheet for ABIN3126100 GPR84 Protein (AA 1-396) (Strep Tag)



Overview

Quantity:	250 μg
Target:	GPR84
Protein Characteristics:	AA 1-396
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR84 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Brand:	AliCE®
Sequence:	MWNSSDANFS CYHESVLGYR YFAVIWGVAV AVTGTVGNVL TLLALAIRPK LRTRFNLLIA
	NLTLADLLYC TLLQPFSVDT YLHLHWRTGA VFCRIFGLLL FTSNSVSILT LCLIALGRYL
	LIAHPKLFPQ VFSAKGIVLA LVGSWVVGVT SFAPLWNVFV LVPVVCTCSF DRMRGRPYTT
	ILMGIYFVLG LSSVGVFYCL IHRQVKRAAR ALDQYGLHQA SIRSHQVAGT QEAMPGHFQE
	LDSGVASRGP SEGISSEPVS AATTQTLEGD SSEAGGQGIR KAAQQIAERS LPEVHRKPRE
	TAGARRATDA PSEFGKVTRM CFAVFLCFAL SYIPFLLLNI LDARGRAPRV VHMVAANLTW
	LNSCINPVLY AAMNRQFRHA YGSILKRGPQ SFRRFH
	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 posttranslational 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:	GPR84

Target Details

Alternative Name:	Gpr84 (GPR84 Products)
Background:	G-protein coupled receptor 84,FUNCTION: G protein-coupled receptor that responds
	endogenously to dietary fatty acids or nutrient, specifically medium-chain free fatty acid (FFA)
	with carbon chain lengths of C9 to C14. Capric acid (C10:0), undecanoic acid (C11:0) and lauric
	acid (C12:0) are the most potent agonists (By similarity). In immune cells, functions as a pro-
	inflammatory receptor via 6-OAU and promotes the expression of pro-inflammatory mediators
	such as TNFalpha, IL-6 and IL-12B as well as stimulating chemotactic responses through
	activation of signaling mediators AKT, ERK and NF-kappa-B (by sim). In addition, triggers
	increased bacterial adhesion and phagocytosis in macrophages and regulates pro-
	inflammatory function via enhancing NLRP3 inflammasome activation (PubMed:34912006).
	Plays also an important role in inflammation by modulating neutrophil functions
	(PubMed:37016043). Mechanistically, promotes neutrophil chemotaxis, reactive oxygen
	species (ROS) production and degranulation via LYN-AKT/ERK pathway (PubMed:37016043).
	To regulate ROS production, communicates with the two formyl peptide receptors FPR2 and
	FPR1 to control the NADPH oxidase activity in neutrophils (PubMed:29973940).
	{ECO:0000250 UniProtKB:Q9NQS5, ECO:0000269 PubMed:16966319}.
Molecular Weight:	43.7 kDa
UniProt:	Q8CIM5
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
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	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
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	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