

Datasheet for ABIN7559377

## GPR84 Protein (AA 1-396) (His tag)



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### Overview

Quantity:	1 mg
Target:	GPR84
Protein Characteristics:	AA 1-396
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR84 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Gpr84 Protein expressed in mammalian cells.
Sequence:	<p>MWNSSDANFS CYHESVLGYR YFAVIWGVAV AVTGTVG NVL TLLALAIRPK LRTRFNLLIA  NLTLADLLYC TLLQPFSVDT YLHLHWRTGA VFCRIFGLLL FTSNSVSILT LCLIALGRYL  LIAHPKLFPQ VFSAGGIVLA LVGSWVVGVT SFAPLWNVFV LVPVVCTCSF DRMRGRPYTT  ILMGIYFVLG LSSVG VFYCL IHRQVKRAAR ALDQYGLHQA SIRSHQVAGT QEAMPGHFQE  LDSGVASRGP SEGISSEPV S AATTQTLEGD SSEAGGQGIR KAAQQAERS LPEVHRKPRE  TAGARRATDA PSEFGKVTRM CFAVFLCFAL SYIPFLLLNI LDARGRAPRV VHMVAANLTW  LNSCINPVLY AAMNRQFRHA YGSILKRG PQ SFRRFH</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

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### Target:

GPR84

### 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

## Target Details

	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:	<a href="#">Q8CIM5</a>

## Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months