

Datasheet for ABIN7548202

## GPR109B Protein (AA 1-387) (His tag)



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### 3 Images

#### Overview

Quantity:	1 mg
Target:	GPR109B (HCAR3)
Protein Characteristics:	AA 1-387
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR109B protein is labelled with His tag.

#### Product Details

Purpose:	Custom-made recombinant HCAR3 Protein expressed in mammalian cells.
Sequence:	<p>MNRHHLQDHF LEIDKKNCCV FRDDFIKVL PPVLGLEFIF GLLGNLALW IFCFHLKSWK</p> <p>SSRIFLFNLA VADFLLIICL PFVMDYYVRR SDWKFGDIPC RLVLFMFAMN RQGSIIFLT</p> <p>VAVDRYFRVV HPHHALNKIS NWTAAIISCL LWGITVGLTV HLLKKKLLIQ NGTANVCISF</p> <p>SICHTFRWHE AMFLLEFFLP LGIILFCSAR IIWSLRQRQM DRHAKIKRAI TFIMVVAIVF</p> <p>VICFLPSVVV RIHIFWLLHT SGTQNCEVYR SVDLAFFITL SFTYMNSMLD PVVYFSSPS</p> <p>FPNFFSTLIN RCLQRKITGE PDNNRSTSVE LTGDPNKTRG APEALIANSG EPWSPSYLGP</p> <p>TSNNHSSKKGH CHQEPASLEK QLGCCIE <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.
Characteristics:	Key Benefits:

## Product Details

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- 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:	GPR109B (HCAR3)
Alternative Name:	HCAR3 ( <a href="#">HCAR3 Products</a> )
Background:	Hydroxycarboxylic acid receptor 3 (G-protein coupled receptor 109B) (G-protein coupled receptor HM74) (G-protein coupled receptor HM74B) (Niacin receptor 2) (Nicotinic acid receptor 2),FUNCTION: Receptor for 3-OH-octanoid acid mediates a negative feedback regulation of adipocyte lipolysis to counteract prolipolytic influences under conditions of physiological or pathological increases in beta-oxidation rates. Acts as a low affinity receptor for nicotinic acid. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet. {ECO:0000269 PubMed:12522134, ECO:0000269 PubMed:19561068}.
Molecular Weight:	44.5 kDa
UniProt:	<a href="#">P49019</a>

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
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Application Details

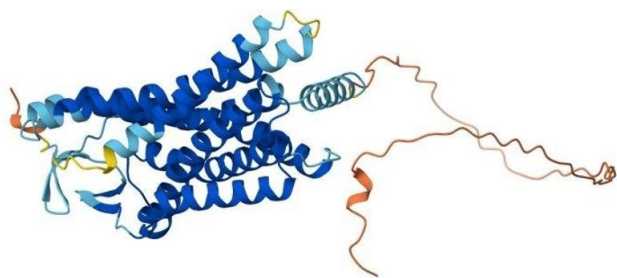
functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

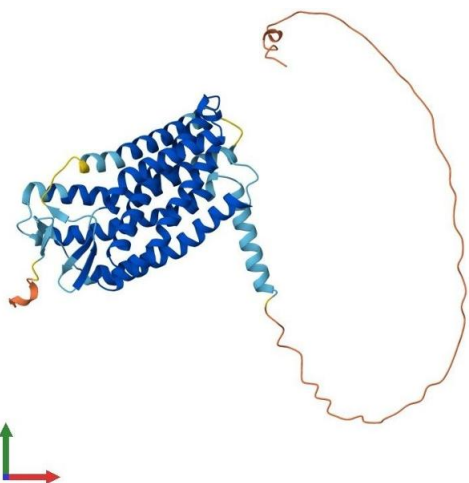
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

Images



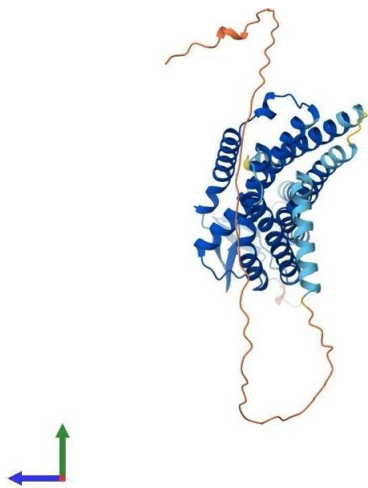
**Protein Structure**

**Image 1.** AlphaFold protein structure prediction of Human Recombinant HCAR3 Protein, UniprotID P49019



**Protein Structure**

**Image 2.** AlphaFold protein structure prediction of Human Recombinant HCAR3 Protein, UniprotID P49019



### Protein Structure

**Image 3.** AlphaFold protein structure prediction of Human Recombinant HCAR3 Protein, UniprotID P49019