

Datasheet for ABIN7596496

GPR75 Protein (DYKDDDDK Tag)



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Overview

Quantity:	10 µg
Target:	GPR75
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This GPR75 protein is labelled with DYKDDDDK Tag.
Application:	ELISA, Surface Plasmon Resonance (SPR), Phage Display (PhD), Immunogen (Imm), Cryogenic electron microscopy (cryo-EM)

Product Details

Purpose:	Human β 2AR-GPR75-BRIL full length protein-synthetic nanodisc
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Target Details

Target:	GPR75
Alternative Name:	GPR75 (GPR75 Products)
Background:	<p>GPRchr2, WI31133</p> <p>GPR75 is a member of the G protein-coupled receptor family and is a novel target for the clinical treatment of obesity. Human GPR75 haploinsufficiency exhibits a striking phenotype of low body fat, and GPR75 knockout mice are hypophagic and thin, improving glucose tolerance and insulin sensitivity. To enhance the expression level of GPR75, twenty-four amino acids from the β2AR receptor (MGQPGNGSAFLLAPNRSHPDHDV) were used to replace the original residues 1-31 in a modified version of the GPR75 receptor. Furthermore, the BRIL sequence was</p>

Target Details

used to replace the original ICL3 loop (237-306) to enhance receptor stability. BRIL is thermostabilized apocytochrome b562 with mutations M7W, H102I, R106L, PDB ID 1M6T.

Molecular Weight: The human full length β 2AR-GPR75-BRIL protein has a MW of 59.4 kDa

UniProt: [O95800](#)

Application Details

Comment: Advantages:

- Highly purified membrane proteins
- High solubility in aqueous solutions
- High stability
- Proteins are in a native membrane environment and remain biologically active
- No detergent and can be used for cell-based assays
- No MSP backbone proteins
- Mammalian cell expression system ensures post- translational modifications

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months