

HDFP1470

Product Information

Product SKU:	HDFP1470	Expression Host:	HEK293	Size:	10 μ g
Target:	GPR75	Tag:	C-Flag Tag		

Additional Information

Conjugate:	Unconjugated	Uniprot ID:	O95800
Molecular Weight:	The human full length β 2AR-GPR75-BRIL protein has a MW of 59.4 kDa		

Protein Information

Background: 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 β 2AR receptor (MGQPGNGSAFLAPNRSHPDHDV) were used to replace the original residues 1-31 in a modified version of the GPR75 receptor. Furthermore, the BRIL sequence was 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.

Synonyms: GPRchr2; W131133

Protein Description: Human β 2AR-GPR75-BRIL full length protein-synthetic nanodisc

Formulation: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for

Protein Pathways: -

Protein Families: Druggable Genome, GPCR, Transmembrane.

Usage: Research use only

Contact Details | Dublin, Ireland

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Storage & Shipping: 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.

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