

PRODUCT INFORMATION

Tag C-Flag Tag
Target HCAR2

Synonyms GPR109A, HCA2, HM74a, HM74b, NIACR1,

PUMAG, Puma-g

DescriptionHuman HCAR2 full length protein-synthetic

nanodisc 6~8weeks

Delivery6~8weekUniprot IDQ8TDS4Expression HostHEK293

Protein Families GPCR, Transmembrane, Druggable Genome,

Protein Pathways N/A

Background

Molecular Weight

The human full length HCAR2 protein has a MW of

41.9kDa

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 specific instructions. Do not use solvents with

pH lower than 6.5 in subsequent experiments.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

Storage & Shipping intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

témperature.

Acts as a high affinity receptor for both nicotinic acid (also known as niacin) and (D)-beta-hydroxybutyrate and mediates increased adiponectin secretion and decreased lipolysis through G(i)-protein-mediated inhibition of adenylyl cyclase. This pharmacological effect requires nicotinic acid doses that are much higher than those provided by a normal diet. Mediates nicotinic acid-induced apoptosis in mature neutrophils. Receptor activation by nicotinic acid results in reduced cAMP levels which may affect

results in reduced cAMP levels which may affect activity of cAMP-dependent protein kinase A and phosphorylation of target proteins, leading to neutrophil apoptosis. The rank order of potency for the displacement of nicotinic acid binding is 5-methyl pyrazole-3-carboxylic acid = pyridine-3-acetic acid > acifran > 5-methyl nicotinic acid =

acipimox >> nicotinuric acid = nicotinamide.[UniProtKB/Swiss-Prot Function]

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