

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

Target HCAR2

GPR109A; HCA2; HM74a; HM74b; NIACR1; Puma-**Synonyms**

g; PUMAG

Human HCAR2-Strep full length protein-synthetic Description

nanodisc

Delivery In Stock **Uniprot ID** Q8TDS4 **Expression Host HEK293**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways

Formulation & Reconstitution

Background

The human full length HCAR2-Strep protein has a **Molecular Weight**

MW of 41.9 kDa

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

a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. 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 Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Acts as a high affinity receptor for both nicotinic acid (also known as niacin) and (D)-betahydroxybutyrate 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 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 5methyl pyrazole-3-carboxylic acid = pyridine-3-acetic acid > acifran > 5-methyl nicotinic acid = acipimox >> nicotinuric acid = nicotinamide.

Usage Research use only Conjugate Unconjugated



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ELISA assay to evaluate HCAR2-Strep-Nanodisc 0.2µg Human HCAR2-Strep-Nanodisc per well

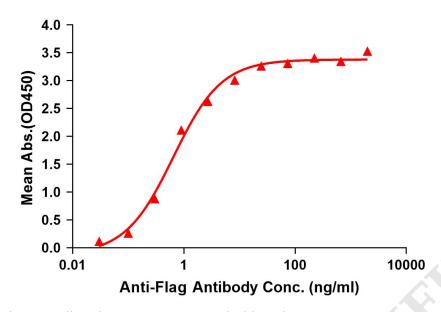


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag HCAR2-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with HCAR2-Strep-nanodisc is 0.649ng/ml.

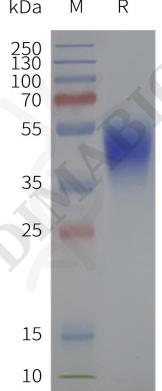


Figure 2. Human HCAR2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE



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