Nanodisc Human HCAR2-Strep Protein



HDFP1052

Product Information

DFP1052	Expression Host:	HEK293		Size:	10µg
CAR2	Tag:	C-Flag&Stre	ер Тад		
tion					
Unconjugated	d Unip	rot ID:	Q8TDS4		
t: The human fu	The human full length HCAR2-Strep protein has a MW of 41.9 kDa				
	CAR2 tion Unconjugated	CAR2 Tag: tion Unconjugated Unip	CAR2 Tag: C-Flag&Stree	CAR2 Tag: C-Flag&Strep Tag tion Unconjugated Uniprot ID: Q8TDS4	CAR2 Tag: C-Flag&Strep Tag tion Unconjugated Uniprot ID: Q8TDS4

Protein Information

Acts as a high affinity receptor for both nicotinic acid (also known as niacin) and (D)-Background: 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 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] Synonyms: GPR109A, HCA2, HM74a, HM74b, NIACR1, PUMAG, Puma-q **Protein Description:** Human HCAR2-Strep 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 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.

Protein Pathways:

Protein Families:	GPCR, Transmembrane, Druggable Genome.
Usage:	Research use only
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.