

PRODUCT INFORMATION

Тад	C-Flag Tag
Target	HCAR2
Synonyms	GPR109A, HCA2, HM74a, HM74b, NIACR1, PUMAG, Puma-g
Description	Human HCAR2 full length protein-synthetic nanodisc
Delivery	6~8weeks
Uniprot ID	Q8TDS4
Expression Host	HEK293
Protein Families	GPCR,Transmembrane,Druggable Genome,
Protein Pathways	N/A
Molecular Weight	The human full length HCAR2 protein has a MW of 41.9kDa
Formulation & Reconstitution	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
Storage & Shipping	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.
Background	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 activity of cAMP-dependent proteins, leading to neutrophil apoptosis. The rank order of potency for the displacement of nicotinic acid = pyridine-3- acetic acid > acifran > 5-methyl nicotinic acid = acipimox >> nicotinuric acid = nicotinamide.[UniProtKB/Swiss-Prot Function]
Usage	Research use only
Conjugate	Unconjugated

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