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Product datasheet for PH306527

HCAR2 (NM_177551) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GPR109A MS Standard C13 and N15-labeled recombinant protein (NP_808219)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206527
Predicted MW:	41.8 kDa
Protein Sequence:	>RC206527 protein sequence Red=Cloning site Green=Tags(s) MNRHHLQDHFLEIDKKNCCVFRDDFIVKVLPPVLGLEFIFGLLGNGLALWIFCFHLKSWKSSRIFLFNLA VADFLLIICLPFLMDNYVRRWDWKFGDIPCRLMLFMLAMNRQGSIIFLTVVAVDRYFRVVHPHHALNKIS NRTAAIISCLLWGITIGLTVHLLKKKMPIQNGGANLCSSFSICHTFQWHEAMFLLEFFLPLGIILFCSAR IIWSLRQRQMDRHAKIKRAITFIMVVAIVFVICFLPSVVVRIRIFWLLHTSGTQNCEVYRSVDLAFFITL SFTYMNSMLDPVVYYFSSPSFPNFFSTLINRCLQRKMTGEPDNNRSTSVELTGDPNKTRGAPEALMANSG EPWSPSYLGPTSP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_808219
RefSeq Size:	2082
RefSeq ORF:	1089
Synonyms:	GPR109A; HCA2; HM74a; HM74b; NIACR1; Puma-g; PUMAG
Locus ID:	338442

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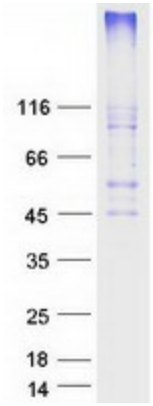
UniProt ID: Q8TDS4, A0A4Y1JWQ0

Cytogenetics: 12q24.31

Summary: 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 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]

Protein Families: Druggable Genome, GPCR, Transmembrane

Product images:



Coomassie blue staining of purified HCAR2 protein (Cat# [TP306527]). The protein was produced from HEK293T cells transfected with HCAR2 cDNA clone (Cat# [RC206527]) using MegaTran 2.0 (Cat# [TT210002]).