

Recombinant Human HCAR2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HCAR2-1976H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GPR109A MS Standard C13 and N15-labeled recombinant protein (NP_808219) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	41.8 kDa
AA Sequence	MNRHHLQDHFLEIDKKNCCVFRDDFIVKVLPPVLGLEFIFGLLGNGLALWIFCFHLKS WKSSRIFLFNLAVADFLLIICLPFLMDNYVRRWDWKFGDIPCRMLFMLAMNRQGSII FLTVAVDTRYFRVVHPHHALNKISNRTAAIISCLLWGITIGLTVHLLKKKMPIQNGGAN LCSSFSICHTFQWHEAMFLEFFLPLGIILFCSARIWWSLRQRQMDRHAKIKRAITFIMV VAIVFVICFLPSVVVRIRIFWLLHTSGTQNCVYRSVDLAFFITLSFTYMNSMLDPVVY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YFSSPSFPNFFSTLINRCLQRKMTGEPDNNRSTSVELTGDPNKTRGAPEALMANS
EPWSPSYLGPTSPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HCAR2 hydroxycarboxylic acid receptor 2 [Homo sapiens (human)]
Official Symbol	HCAR2
Synonyms	HCAR2; hydroxycarboxylic acid receptor 2; G protein coupled receptor 109A, GPR109A; HCA2; HM74A; niacin receptor 1; NIACR1; Puma g; PUMAG; nicotinic acid receptor; G protein-coupled receptor 109A; G-protein coupled receptor 109A; G protein-coupled receptor HM74a; G-protein coupled receptor HM74A; hydroxycarboxylic acid receptor 2; HM74a; HM74b; Puma-g; GPR109A;
Gene ID	338442
mRNA Refseq	NM_177551
Protein Refseq	NP_808219

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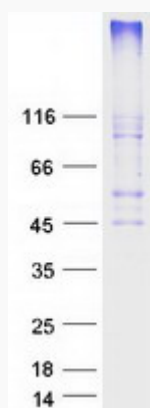
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MIM 609163

UniProt ID Q8TDS4

SDS-PAGE



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