

# 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  
 FLTVAVDYFRVPHHALNKISNRATAAISCLLWGITIGLTVHLLKKKMPIQNGGAN  
 LCSSFSICHTFQWHEAMFLEFFLPLGIILFCSARIIWSLRQRQMDRHAKIKRAITFIMV  
 VAIVVICFLPSVVVRIRIFWLLHTSGTQNCVYRSVDLAFFITLSFTYMNSMLDPVVY

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

YFSSPSFPNFFSTLINRCLQRKMTGEPDNNRSTSVELTGDPNKTRGAPEALMANS  
EPWSPSYLGPTSPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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](#)

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

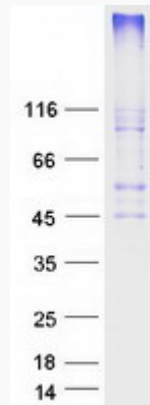
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

**MIM** 609163

**UniProt ID** Q8TDS4

**SDS-PAGE**



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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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