PRODUCT INFORMATION

Target	HCAR2
Synonyms	GPR109A, NIACR1, HM74A, PUMA-G, Hydroxycarboxylic acid receptor 2
Description	Recombinant human HCAR2 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	Q8TDS4
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	HCAR2(Met1-Lys28) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 29.6 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
Background	HCAR2 (GPR109A / Hydroxycarboxylic acid receptor 2) is a G-protein coupled receptor (GPCR) primarily expressed in adipose tissue, immune cells, and colonic epithelium. It couples to Gi/o proteins, inhibiting adenylyl cyclase and reducing cAMP levels. HCAR2 mediates anti-lipolytic effects, regulation of inflammation, and immune cell modulation. Pharmacologically, it is the target of niacin and related compounds and is implicated in atherosclerosis, metabolic disorders, and immune regulation, making it a relevant therapeutic target in cardiovascular and metabolic diseases.
Usage	Research use only
Conjugate	Unconjugated

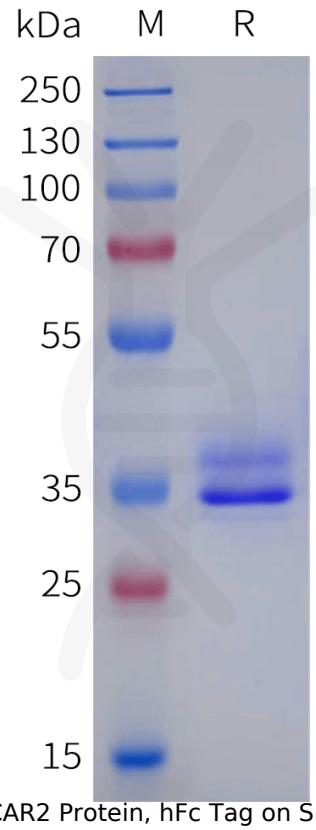

Figure 1. Human HCAR2 Protein, hFc Tag on SDS-PAGE under reducing condition.