

GCGR Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	GL-R;GCGR;Glucagon receptor
Protein Construction:	26-136 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P47871
Molecular Weight:	18.1 kDa (predicted)
AA Sequence:	AQVMDFLFEKWKLYGDQCHHNLSELLPPPELVCNRTFDKYSCWPDTPANTTANISCPWYLPWHHKVQHRF VFKRCGPDGQWVRGPRGQPWRDASQCQMDGEEIEVQKEVAK

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized human GCGR at 2 µg/mL can bind Anti-GCGR recombinant antibody, the EC 50 is 3.747-6.666 ng/mL.
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

G-protein coupled receptor for glucagon that plays a central role in the regulation of blood glucose levels and glucose homeostasis. Regulates the rate of hepatic glucose production by promoting glycogen hydrolysis and gluconeogenesis. Plays an important role in mediating the responses to fasting. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates

A DRUG SCREENING EXPERT

the activity of down-stream effectors, such as adenylate cyclase. Promotes activation of adenylate cyclase. Besides, plays a role in signaling via a phosphatidylinositol-calcium second messenger system.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481