

GCGR Protein, Human, Recombinant (E. coli, His & Myc)

General Information

Synonyms:	Glucagon receptor;GCGR;GL-R
Protein Construction:	26-136 aa
Species:	Human
Expression Host:	E. coli
Accession:	P47871
Molecular Weight:	20.5 kDa (predicted)
AA Sequence:	AQVMDFLFEKWKLYGDQCHHNLSELLPPPELVCNRTFDKYSCWPDTPANTTANISCPWYLPWHHKVQHRF VFKRCGPDGQWVRGPRGQPWRDASQCQMDGEEIEVQKEVAK

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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 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

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