

Glucagon receptor (GCGR) Active Protein | GCGR active protein

Recombinant Human Glucagon receptor (GCGR), partial (Active)

CATALOG #
AAA279211

HOST
Mammalian cell

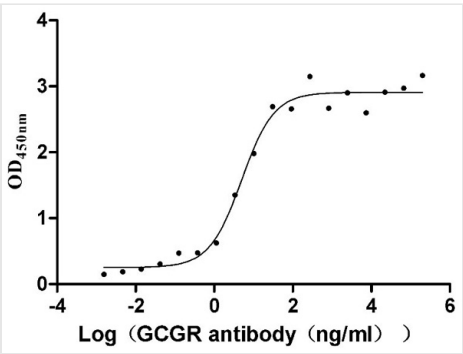
PRODUCT SYNONYMS

Glucagon receptor (GCGR); Recombinant Human Glucagon receptor (GCGR); partial (Active); GL-R; GCGR active protein

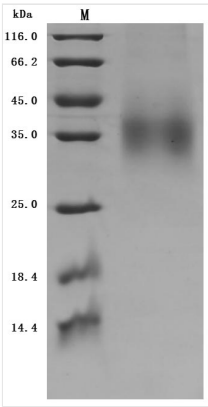
PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Sequence Positions	26-136aa; Partial
Sequence	AQVMDFLEK WKLYGDQCHH NLSLLPPPT LVCNRTFDKY SCWPDTPANT TANISCPWYL PWHHKVQHRF VFKRCGPDGQ WVRGPRGQPW RDASQCQMDG EEIEVQKEVA K\$
Species	Homo sapiens (Human)
Tag	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human GCGR at 2 ug/mL can bind Anti-GCGR recombinant antibody, the EC50 is 3.747-6.666 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized human GCGR at 2 ?g/ml can bind Anti-GCGR recombinant antibody, the EC50 is 3.747-6.666 ng/mL.



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for GCGR active protein	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 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.
Product Categories/Family for GCGR active protein	Active Protein & In Stock Protein
References	"Conformational dimorphism of self-peptides and molecular mimicry in a disease-associated HLA-B27 subtype."Ruckert C., Fiorillo M.T., Loll B., Moretti R., Biesiadka J., Saenger W., Ziegler A., Sorrentino R., Uchanska-Ziegler B.J. Biol. Chem. 281:2306-2316(2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503947
NCBI GeneID	2642
NCBI Accession #	NP_000151.1
NCBI GenBank Nucleotide #	NM_000160.3
UniProt Accession #	P47871; Q2M3M5
Molecular Weight	54,009 Da
NCBI Official Full Name	glucagon receptor
NCBI Official Synonym Full Names	glucagon receptor
NCBI Official Symbol	GCGR
NCBI Official Synonym Symbols	GGR
NCBI Protein Information	glucagon receptor; GL-R
UniProt Protein Name	Glucagon receptor
UniProt Gene Name	GCGR
UniProt Synonym Gene Names	GL-R

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/mammalian-active-protein/glucagon-receptor-gcgr/279211>