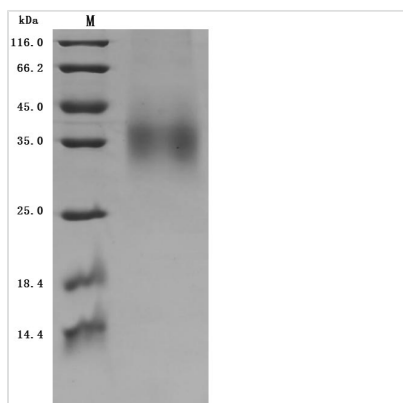


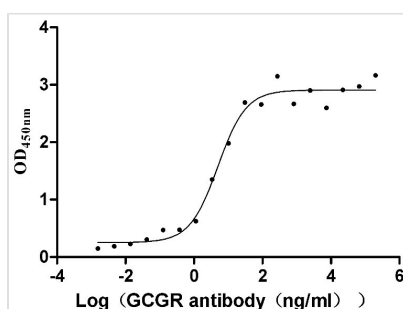


Recombinant Human Glucagon receptor (GCGR), partial (Active)

Product Code	CSB-MP009316HU1
Abbreviation	Recombinant Human GCGR protein, partial (Active)
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P47871
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human GCGR at 2 µg/mL can bind Anti-GCGR recombinant antibody (CSB-RA009316A1HU), the EC ₅₀ is 3.747-6.666 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	AQVMDFLFEKWKLYGDQCHHNLSSLPPPTTELVCNRTFDKYSCWPDTPANTTA NISCPWYLPWHHKVQHRFVFKRCGPDGQWVRGPRGQPWRDASQCQMDGE EIEVQKEVAK
Research Area	Cancer
Source	Mammalian cell
Target Names	GCGR
Expression Region	26-136aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	18.1 kDa
Protein Length	Partial
Image	



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



Activity
Measured by its binding ability in a functional ELISA. Immobilized human GCGR at 2 µg/ml can bind Anti-GCGR recombinant antibody (CSB-RA009316A1HU), the EC₅₀ is 3.747-6.666 ng/mL.

Description

Mammalian cell-expressed recombinant human GCGR is a partial length protein tagged with a 10xHis motif at the N-terminus and a Myc motif at the C-terminus. Its DNA sequence corresponds to amino acids 26-136 of the human GCGR. This GCGR protein has high purity, greater than 95% determined by SDS-PAGE. It migrated to the molecular weight band of about 32 kDa on the gel. Its endotoxin content is less than 1.0 EU/ug measured by the LAL method. It is also biologically active and its activity has been validated through a functional ELISA by binding to the anti-GCGR antibody. And it is in stock now.

GCGR, a member of class B GPCR, combines with the natural ligand glucagon to regulate blood glucose homeostasis. It is an important drug target for type II diabetes. A series of drugs targeting GCGR have been developed to relieve hyperglycemia in diabetic patients, including GCGR antagonists, antibodies, and antisense oligonucleotides of GCGR.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.