

Human GCGR/Glucagon receptor Protein

Cat. No. GCR-HM40R

Description

Source	Recombinant Human GCGR/Glucagon receptor Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ala26-Lys136.
Accession	P47871
Molecular Weight	The protein has a predicted MW of 15.96 kDa. Due to glycosylation, the protein migrates to 30-50 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

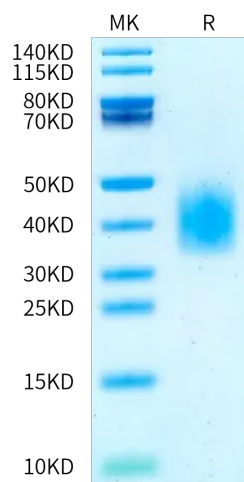
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The pancreatic hormone glucagon activates the glucagon receptor (GCGR), a class B seven-transmembrane G protein-coupled receptor that couples to the stimulatory heterotrimeric G protein and provokes PKA-dependent signaling cascades vital to hepatic glucose metabolism and islet insulin secretion. The GCGR expressed at the plasma membrane is constitutively ubiquitinated and upon agonist-activation, internalized GCGRs are deubiquitinated at early endosomes and recycled via Rab4-containing vesicles.

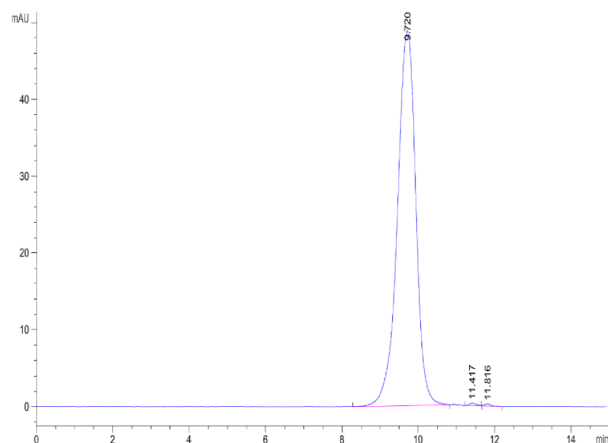
Assay Data

Tris-Bis PAGE



Human GCGR on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human GCGR is greater than 95% as determined by SEC-HPLC.