

Human GCGR/Glucagon receptor Protein-VLP

Cat. No. GCR-HM00V



Description

Source	Recombinant Human GCGR/Glucagon receptor Protein-VLP is expressed from HEK293.
	It contains Met1-Phe477.
Accession	P47871
Molecular Weight	The target protein has a predicted MW of 56 kDa.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	>95% as determined by HPLC

Formulation and Storage

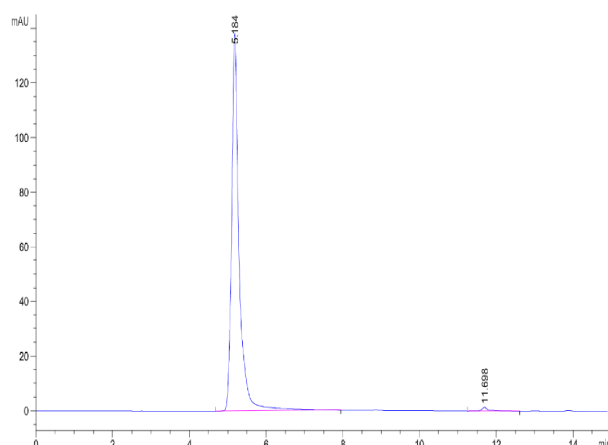
Formulation	Supplied as 0.22µm filtered solution in PBS, 150mM L-Arginine (pH 7.4). Notice: If you need it for immunization, water-soluble adjuvant is recommended.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal 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

SEC-HPLC

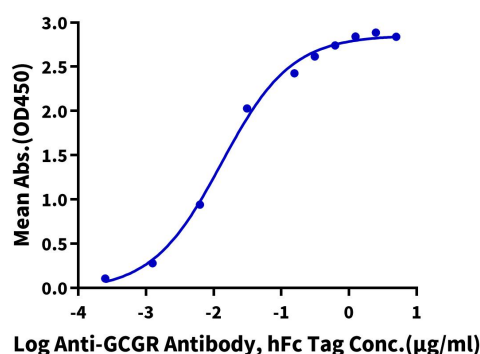


The purity of Human GCGR VLP is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human GCGR VLP ELISA

0.5µg Human GCGR VLP Per Well



Immobilized Human GCGR VLP at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-GCGR Antibody, hFc Tag with the EC50 of 13.1ng/ml determined by ELISA (QC Test).