

Human GIPR Protein, Fc Tag (SPR verified)

Catalog # GIR-H5253



Synonyms

PGQTL2

Source

Human GIPR Protein, Fc Tag (GIR-H5253) is expressed from human 293 cells (HEK293). It contains AA Gly 26 - Gln 138 (Accession # [P48546-1](#)).

Predicted N-terminus: Gly 26

Molecular Characterization

GIPR(Gly 26 - Gln 138) P48546-1	Fc(Pro 100 - Lys 330) P01857-1
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 39.4 kDa. The protein migrates as 45-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

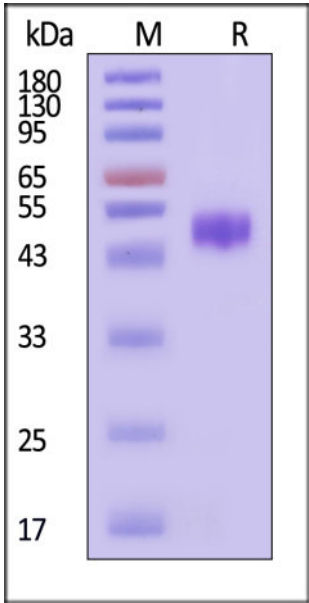
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

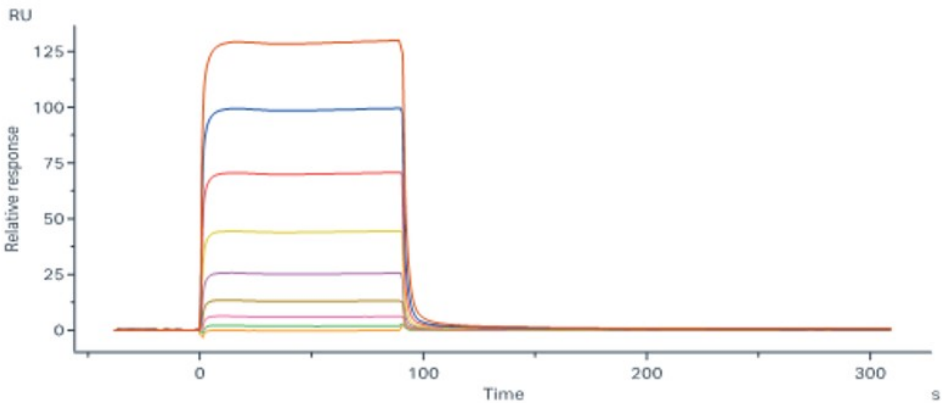
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



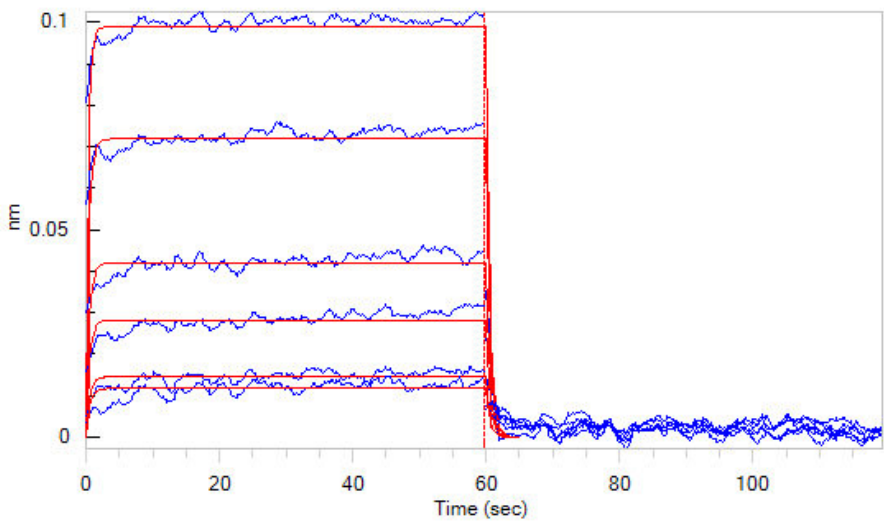
Human GIPR Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-SPR



Human GIPR Protein, Fc Tag (Cat. No. GIR-H5253) immobilized on CM5 Chip can bind GIP, human with an affinity constant of 184 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Bioactivity-BLI



Loaded Human GIPR Protein, Fc Tag (Cat. No. GIR-H5253) on Protein A Biosensor, can bind GIP, human with an affinity constant of 64 μ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

This gene encodes a G-protein coupled receptor for gastric inhibitory polypeptide (GIP), which was originally identified as an activity in gut extracts that inhibited gastric acid secretion and gastrin release, but subsequently was demonstrated to stimulate insulin release in the presence of elevated glucose. Mice lacking this gene exhibit higher blood glucose levels with impaired initial insulin response after oral glucose load. Defect in this gene thus may contribute to the pathogenesis of diabetes. [provided by RefSeq, Oct 2011]

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