Human LGR-4 Protein

Cat. No. LGR-HM104

Description

Source	Recombinant Human LGR-4 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Leu28–Leu396.
Accession	Q9BXB1-1
Molecular Weight	The protein has a predicted MW of 50.20 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

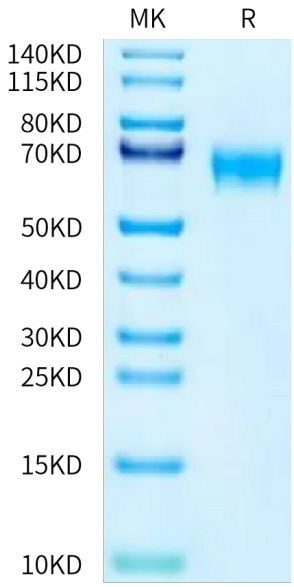
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Leucine-rich repeat-containing G protein-coupled receptor (LGR)-4 is a G protein-coupled receptor (GPCR) with a seven-transmembrane domain structure. LGRs are evolutionally and structurally phylogenetic, classified into three subgroups and are members of the so-called orphan receptors.

Assay Data

Bis-Tris PAGE



Human LGR-4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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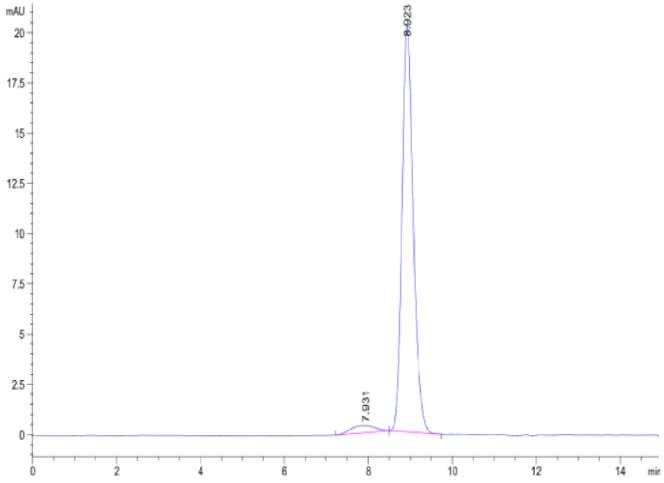
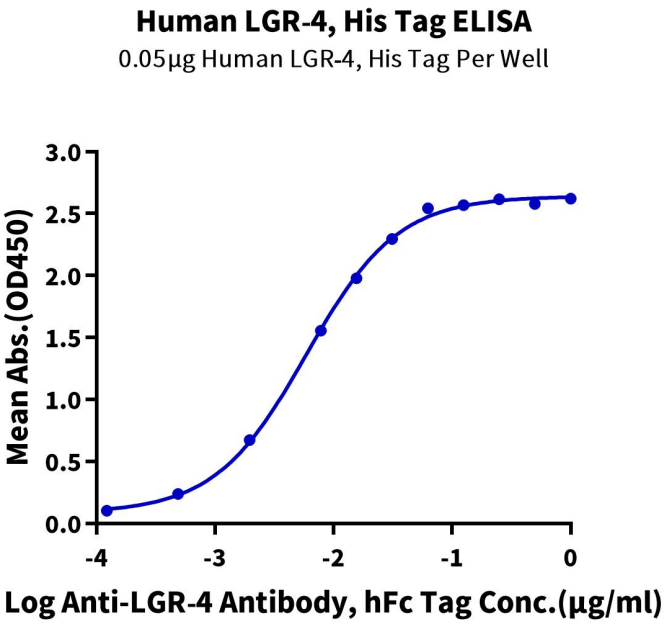
Assay Data



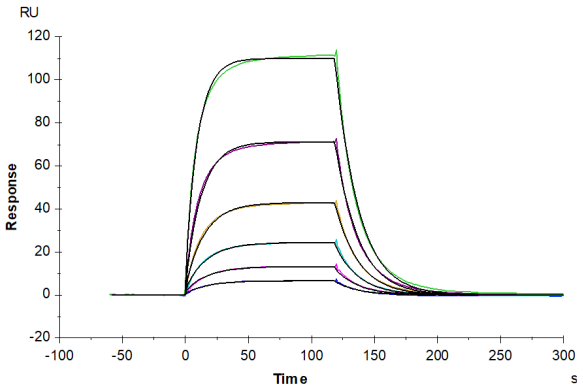
The purity of Human LGR-4 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human LGR-4, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-LGR-4 Antibody, hFc Tag with the EC50 of 5.9ng/ml determined by ELISA.

SPR Data



Human R Spondin 3, His Tag immobilized on CM5 Chip can bind Human LGR4, His Tag with an affinity constant of 0.440 μM as determined in SPR assay (Biacore T200).