

LGR4 Protein, Human, Recombinant (His)

General Information

Protein Construction:	Leu28–Leu396
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BXB1-1
Molecular Weight:	50.20 kDa (Predicted); 60-70 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human LGR-4, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-LGR-4 Antibody, hFc Tag with the EC50 of 5.9 ng/ml determined by ELISA (QC Test). 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).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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