

Human LGR-5 Protein

Cat. No. LGR-HM205



Description

Source	Recombinant Human LGR-5 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus.
	It contains Gly22-Pro543.
Accession	O75473-1
Molecular Weight	The protein has a predicted MW of 85 kDa. Due to glycosylation, the protein migrates to 110-120 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage

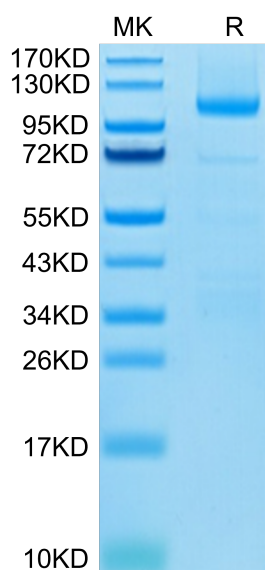
Formulation	Lyophilized from 0.22µm filtered solution in PBS, 5mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -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

G protein-coupled receptor 5 (LGR5), known as a stem cell marker for colon cancer and gastric cancer, can serve as a novel GSC marker involved in EMT and a therapeutic target in glioma. LGR5 is a new functional GSC marker and prognostic indicator that can promote EMT by activating the Wnt/β-catenin pathway and would thus be a novel therapeutic target for glioma.

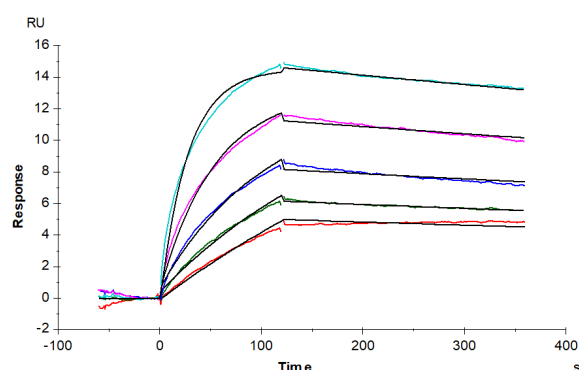
Assay Data

Bis-Tris PAGE



Human LGR-5 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SPR Data



Human LGR-5, hFc Tag captured on CM5 Chip via Protein A can bind Human R-Spondin 3, His Tag with an affinity constant of 0.59 nM as determined in SPR assay (Biacore T200).