## **Human LGR-5 Protein**

#### Cat. No. LGR-HM205



Description	
Source	Recombinant Human LGR-5 Protein is expressed from HEK293 with hFc 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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

#### Formulation and Storage

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Formulation	Lyophilized from 0.22µm filtered solution in PBS, 5mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for

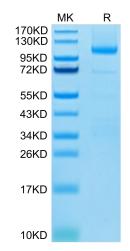
optimal storage. Please minimize freeze-thaw cycles.

# 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**

#### Tris-Bis PAGE

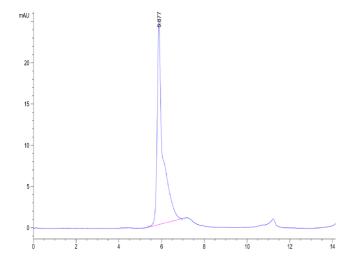


Human LGR-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC** 

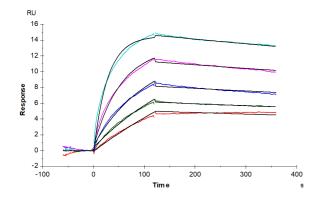
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## **Assay Data**



The purity of Human LGR-5 is greater than 95% as determined by SEC-HPLC.

## **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).