

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag&Avi Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	LGR5
<b>Synonyms</b>	FEX; GPR49; GPR67; GRP49; HG38
<b>Description</b>	Biotinylated Human LGR5 full length protein-PeptiNanodisc
<b>Uniprot ID</b>	O75473
<b>Protein Families</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length LGR5 protein has a MW of 100.0 kDa
<b>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Background</b>	The protein is a leucine-rich repeat-containing receptor (LGR) and member of the G protein-coupled, 7-transmembrane receptor (GPCR) superfamily. The encoded protein is a receptor for R-spondins and is involved in the canonical Wnt signaling pathway. This protein plays a role in the formation and maintenance of adult intestinal stem cells during postembryonic development. Several transcript variants encoding different isoforms have been found for this gene.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Biotinylated



## ELISA assay to evaluate Biotinylated LGR5-PeptiNanodisc

### 0.2 $\mu$ g Human Biotinylated LGR5-PeptiNanodisc per well

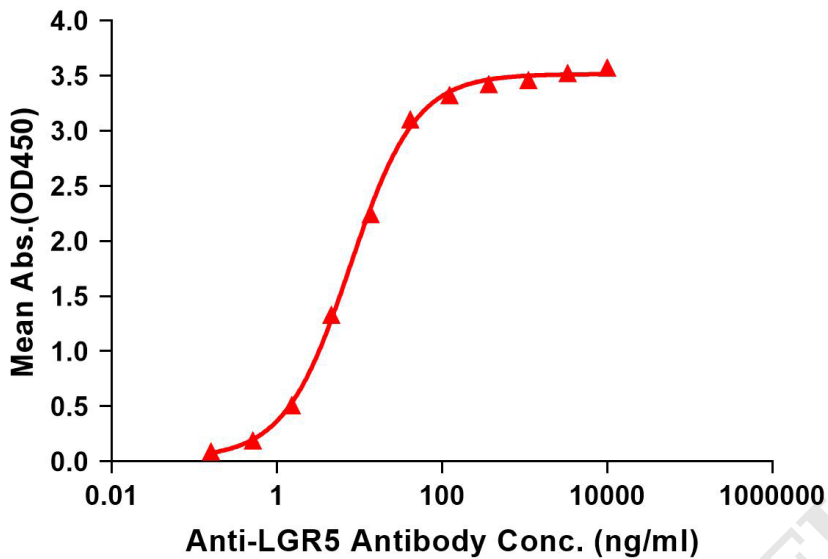


Figure 1. Elisa plates were added with C-Flag&Avi Tag Biotinylated LGR5-PeptiNanodisc (0.2 $\mu$ g/per well) on a Streptavidin pre-coated (0.2 $\mu$ g/per well) plate. Serial diluted anti-LGR5 monoclonal antibody (BME100297) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-LGR5 monoclonal antibody binding with Biotinylated LGR5-PeptiNanodisc is 7.709ng/ml.

kDa M R

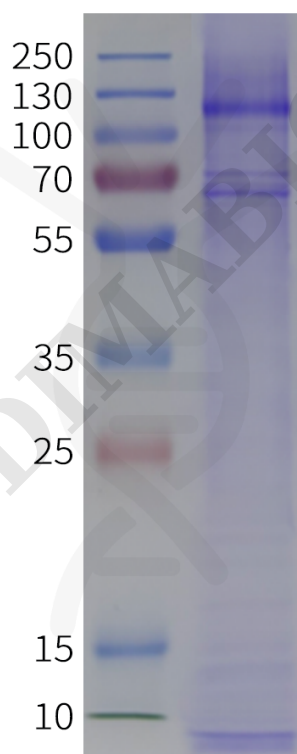


Figure 2. Biotinylated Human LGR5-PeptiNanodisc, C-Flag&Avi Tag on SDS-PAGE

