

LGR-5 Protein-VLP, Human, Recombinant (Flag & His-Strep)

General Information

Synonyms:	HG38;GPR67;FEX;GPR49;GRP49
Protein Construction:	A DNA sequence encoding the Human LGR5 -VLP (O75473) (Gly22-Ser844) was expressed, with a Flag tag at the N-terminus, a polyhistidine tag and a strep tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75473
Molecular Weight:	95.01 kDa (predicted)

QC Testing

Biological Activity:	Immobilized LGR-5 Protein-VLP, Human, Recombinant (Flag & His-Strep) (Cat#TMPY-07172) at 5 µg/mL (100 µL/well) can bind Petosemtamab Derived Anti-CCR5 Monoclonal antibody, Human IgG1, the EC50 is 1.5-5 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:	Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

Protein Background

Leucine-rich repeat-containing G protein-coupled receptor 5 (LGR5) plays a vital role in the development of malignant tumors. Leucine-rich repeat-containing G-protein coupled receptor 5 (LGR5) is highly expressed in colorectal tumors and marks colon cancer stem cells that drive tumor growth and metastasis. LGR5, a well-characterized marker of stem cell and cancer stem cells (CSCs), is best known as a transmembrane receptor for increases canonical Wnt signaling amplitude. LGR5 expressing cells are not limited to the postulated stem cell niche but LGR5 expression is hormonally regulated.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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