

## Active Recombinant Human LGR5 Protein, Fc Chimera

Cat. No. LGR5-1037H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human LGR5 (Accession # O75473), fused with , was produced in Chinese Hamster Ovary cell line, CHO-derived.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Predicted N Terminal</b>	Gly22
<b>Form</b>	Lyophilized from a 0.2 µ filtered solution in PBS.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Human R-Spondin 3 is coated at 0.5 µg/mL, Recombinant Human Lgr5/GPR49 Fc Chimera binds with an apparent Kd <0.1 nM. Measured by its ability to inhibit Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is typically 1.5-7.5 µg/mL in the presence of 20 ng/mL Recombinant Human R-Spondin 2 and 5 ng/mL Recombinant Mouse Wnt-3a.
<b>Molecular Mass</b>	Recombinant Human LGR5, Fc Chimera has a calculated MW of 87 kDa (monomer). In SDS-PAGE migrates as 90-110 kDa, reducing conditions.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3

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months (-70°C).

## GENE INFORMATION

**Gene Name** [LGR5 leucine-rich repeat containing G protein-coupled receptor 5 \[ Homo sapiens \]](#)

**Official Symbol** LGR5

**Synonyms** LGR5; leucine-rich repeat containing G protein-coupled receptor 5; G protein coupled receptor 49 , GPR49, GPR67, leucine rich repeat containing G protein coupled receptor 5; leucine-rich repeat-containing G-protein coupled receptor 5; FEX; HG38; G-protein coupled receptor 49; G-protein coupled receptor 67; G-protein coupled receptor HG38; orphan G protein-coupled receptor HG38; leucine-rich repeat-containing G protein-coupled receptor 5; GPR49; GPR67; GRP49; MGC117008;

**Gene ID** [8549](#)

**mRNA Refseq** [NM\\_003667](#)

**Protein Refseq** [NP\\_003658](#)

**MIM** [606667](#)

**UniProt ID** [O75473](#)

**Chromosome Location** 12q22-q23

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