

Active Recombinant Human LGR5 Protein, Fc Chimera

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

SPECIFICATION

Product Overview	Recombinant Human LGR5 (Accession # O75473), fused with , was produced in Chinese Hamster Ovary cell line, CHO-derived.
Species	Human
Source	CHO
Predicted N Terminal	Gly22
Form	Lyophilized from a 0.2 µ filtered solution in PBS.
Bio-activity	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.
Molecular Mass	Recombinant Human LGR5, Fc Chimera has a calculated MW of 87 kDa (monomer). In SDS-PAGE migrates as 90-110 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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