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Recombinant Human LGR5 / GPR49 protein

Catalog No.: RP00730 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	8549	O75473-1

Tags
C-6His

Synonyms
LGR5; GPR49; GPR67;Leucine-rich repeat-containing G-protein coupled receptor 5

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
60.38 kDa	60-80 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

LGR5 (also known as GPR49) is a seven-transmembrane protein of the class A Rhodopsin-like family of GPCRs. LGR5 and LGR4 bind the R-spondins with high affinity and mediate the potentiation of Wnt/β-catenin signaling by enhancing Wnt-induced LRP6 phosphorylation. The LGR5/RSPO complex could promote Wnt signalling via the neutralization of two transmembrane E3 ligases, RNF43 and ZNRF3.

Basic Information

Description
Recombinant Human LGR5 / GPR49 protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly 22 - Arg 561) of Human LGR5 / GPR49(Accession #NM_003667.3) fused with His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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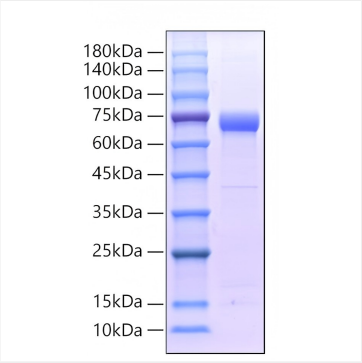
Validation Data



Recombinant Human LGR5 / GPR49 protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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