Recombinant Human LGR5 / GPR49 protein

Catalog No.: RP00730

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Sequence Information

Species
Human

Gene ID
8549

Swiss Prot
O75473-1

Tags
C-6His

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

Product Information

Source
CHO Cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
60.38 kDa

Observed MW
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.

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 CHO 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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

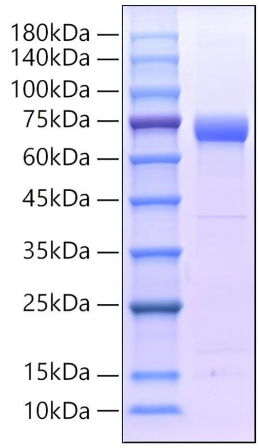
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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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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