

Recombinant Human LGR5 Protein (22-561 aa), His-Myc-tagged

Cat. No. LGR5-2271H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGR5 Protein (22-561 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	22-561 aa
Description	Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and acts as a stem cell marker of the intestinal epithelium and the hair follicle. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal. Involved in the development and/or maintenance of the adult intestinal stem cells during postembryonic development.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	65.4 kDa
AA Sequence	GSSPRSGVLLRGCPHCHCEPDGRMLLRVDCSDLGLSELPSNLSVFVTSYLDLSMNN

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ISQLLPNPLPSLRFLEELRLAGNALTYPKGAFTGLYSLKVLMLQNNQLRHVPTEALQ
 NLRSLQSLRLDANHISYVPPSCFSGHLHLWDDNALTEIPVQAFRSLSALQAMTL
 ALNKIHHIPDYAFGNLSSLVVLHLHNNRIHSLGKKCFDGLHSLETLDLNNNLDEFPT
 AIRTLSNLKELGFHSNNIRSIPEKAFVGNPSLITIHFYDNPIQFVGRSAFQHLPELRTLT
 LNGASQITEFPDLTGTANLESLTLTGAQISSLPQTVCNQLPNLQVLDLSYNLLEDLPS
 FSVQCQLQKIDLRHNEIYEIKVDTFQQLSLRSLNLAWNKAIIHPNAFSTLPSLIKLDLS
 SNLLSSFPITGLHGLTHLKLGTGNHALQSLISSENFPELKVIEMPYAYQCCAFGVCENA
 YKISNQWNKGDNSSMDDLHKKDAGMFQAQDERDLEDLLDFEEDLKALHSVQCSP
 SPGPFPKPCEHLLDGWLIR

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name LGR5 leucine-rich repeat containing G protein-coupled receptor 5 [Homo sapiens]

Official Symbol LGR5

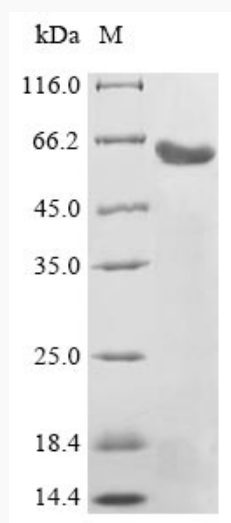
Synonyms LGR5; FEX; HG38; G-protein coupled receptor 49; GPR49; GPR67; GRP49; MGC117008;

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Gene ID	8549
mRNA Refseq	NM_003667
Protein Refseq	NP_003658
MIM	606667
UniProt ID	O75473



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.