



Recombinant Human Leucine-rich repeat-containing G-protein coupled receptor 5 (LGR5), partial

Product Code	CSB-EP012906HU
Relevance	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.
Abbreviation	Recombinant Human LGR5 protein, partial
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O75473
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	GSSPRSGVLLRGCPHCHCEPDGRMLLRVDCSDLGLSELPSNLSVFTSYLDL SMNNISQLLPNPLPSLRFLEELRLAGNALTYPKGAFTGLYSLKVLMLQNNQLR HVPTEALQNLRSLSLRDLANDHISYVPPSCFSGHLHLRHLWLDLDDNALTEIPVQA FRSLALQAMTLALNKIHHIPDYAFGNLSSLVVLHLHNNRIHSLGKKCFDGLHSL ETLDLNYNNLDEFPTAIRTLNKLKELGFHSSNIRSIPEKAFVGNPSLITIHFYDNP QFVGRSAFQHLPELRLTLNGASQITEFPDLTGTANLESLLTGAQISSLPQTV CNQLPNLQVLDLSYNLLEDLPSFSVCQKQKIDLRHNEIYEIKVDTFQQLLSLRS LNLAWNKIAIHPNAFSTLPSLIKLDLSSNLLSSFPITGLHGLTHLKLGTGNHALQSL ISSENFPELKVIEMPYAYQCCAFGVCENAYKISNQNKGDNSSMDDLHKKDA GMFQAQDERDLEDFLLDLFEEDLKALHSVQCSPSPGPFKPEHLLDGLWLR
Research Area	others
Source	E.coli
Target Names	LGR5
Protein Names	G-protein coupled receptor 49 G-protein coupled receptor 67 G-protein coupled receptor HG38
Expression Region	22-561aa



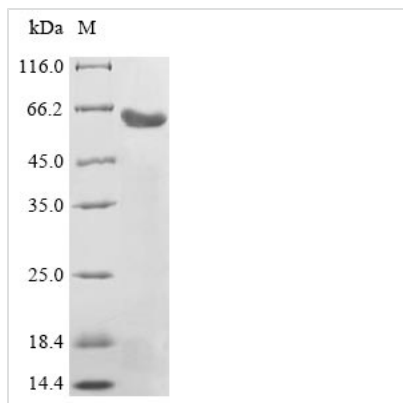
Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info N-terminal 10xHis-tagged and C-terminal myc-tagged

Mol. Weight 65.4kDa

Protein Length Extracellular Domain

Image



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

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.