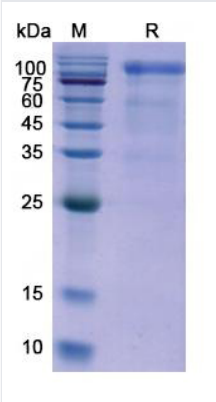
LGR4 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	LGR4, Recombinant Protein
Full Product Name	Recombinant Human LGR4, C-Fc
Product Gene Name	LGR4 recombinant protein
Product Synonym Names	GPR48; Leucine-rich repeat-containing G-protein coupled receptor 4; LGR4; G-protein coupled receptor 48; Drug Target
Host	Mammalian
Form/Format	Lyophilized from a solution in PBS pH7.4, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	104,475 Da
Sequence Positions	Met1-Thr544
Chromosome Location	Chromosome: 11; NC_000011.9 (27387508..27494334, complement). Location: 11p14-p13
OMIM	606666
3D Structure	ModBase 3D Structure for Q9BXB1
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for LGR4 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for LGR4 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for LGR4 recombinant protein	MBS1576087 is a recombinant protein targeting LGR4. Also known as Recombinant Human LGR4, C-Fc. Host: Mammalian.
Other Notes	Small volumes of LGR4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of LGR4 recombinant protein
SDS PAGE for recombinant Human LGR4

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LGR4. It may not necessarily be applicable to this product.

NCBI GI #	157694513
NCBI GeneID	55366
NCBI Accession #	NP_060960.2
UniProt Primary Accession #	Q9BXB1
UniProt Secondary Accession #	Q9NYD1; A6NCH3
UniProt Related Accession #	Q9BXB1
GenBank Nucleotide #	NM_018490.2
NCBI Official Full Name	leucine-rich repeat-containing G-protein coupled receptor 4
NCBI Official Synonym Full Names	leucine-rich repeat containing G protein-coupled receptor 4
NCBI Official Symbol	LGR4
NCBI Official Synonym Symbols	GPR48
UniProt Protein Name	Leucine-rich repeat-containing G-protein coupled receptor 4
UniProt Synonym Protein Names	G-protein coupled receptor 48
Protein Family	Leucine-rich repeat-containing G-protein coupled receptor
UniProt Gene Name	LGR4
UniProt Synonym Gene Names	GPR48
UniProt Entry Name	LGR4_HUMAN
NCBI Protein Information	leucine-rich repeat-containing G-protein coupled receptor 4; G protein-coupled receptor 48
NCBI Summary for LGR4	G protein-coupled receptors (GPCRs) play key roles in a variety of physiologic functions. Members of the leucine-rich GPCR (LGR) family, such as GPR48, have multiple N-terminal leucine-rich repeats (LRRs) and a 7-transmembrane domain (Weng et al., 2008 [PubMed 18424556]).[supplied by OMIM, Aug 2008]

UniProt Comments for LGR4	LGR4: a leucine-rich repeat-containing G-protein-coupled receptor. Receptor for R-spondins, potent stimulators of adult stem cell proliferation. A Wnt receptor component that enhances Wnt signaling by soluble R-spondin proteins. Plays an essential role during homeostasis of the adult mouse intestine. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 11p14-p13 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding; transmembrane receptor activity Biological Process: osteoblast differentiation; G-protein coupled receptor protein signaling pathway; epithelial cell proliferation; positive regulation of transcription, DNA-dependent; negative regulation of cytokine secretion; male genitalia development; negative regulation of toll-like receptor signaling pathway; innate immune response; spermatogenesis; circadian regulation of gene expression; bone remodeling; negative regulation of transcription, DNA-dependent; bone mineralization Disease: Bone Mineral Density Quantitative Trait Locus 17
Research Articles on LGR4	**1.** R-Spondin potentiates Wnt/beta-catenin signaling through orphan receptors LGR4 and LGR5
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/lgr4/1576087