

Active Recombinant Human LGR4 Protein, Fc tagged

Cat. No. LGR4-07H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human LGR4 Protein (Ala25-Thr544) with Human IgG1 Fc tag (Pro100-Lys330) at C-terminus was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
Description	The protein encoded by this gene is a G-protein coupled receptor that binds R-spondins and activates the Wnt signaling pathway. This Wnt signaling pathway activation is necessary for proper development of many organs of the body.
Form	Disulfide-linked homodimer, Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human R-Spondin 3 is coated at 0.5 µg/mL, Recombinant Human Lgr4/GPR48 Fc Chimera binds with an apparent KD <10 nM.
Molecular Mass	83.8 kDa (monomer)
Endotoxin	< 0.10 EU/µg of the protein by the LAL method.
Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under

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	sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 200 µg/mL in PBS.
N-terminal Sequence Analysis	Ala25
Reference	1. Loh, E.D. et al. (2001) Biochem. Biophys. Res. Commun. 282:757. 2. Hsu, S.Y. et al. (1998) Mol. Endocrinol. 12:1830. 3. Carmon, K.S. et al. (2011) Proc. Natl. Acad. Sci. USA 108:11452.

GENE INFORMATION

Gene Name	LGR4 leucine rich repeat containing G protein-coupled receptor 4 [Homo sapiens (human)]
Official Symbol	LGR4
Synonyms	LGR4; leucine rich repeat containing G protein-coupled receptor 4; DPSL; GPR48; BNMD17; leucine-rich repeat-containing G-protein coupled receptor 4; G protein-coupled receptor 48
Gene ID	55366
mRNA Refseq	NM_018490
Protein Refseq	NP_060960

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MIM	606666
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UniProt ID	Q9BXB1
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