

Low-density lipoprotein receptor-related protein 4 Recombinant Protein | LRP4 recombinant protein

Recombinant Human Low-density lipoprotein receptor-related protein 4

CATALOG # AAA114555	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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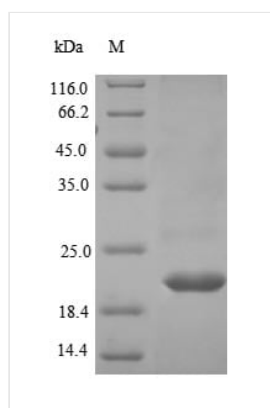
PRODUCT SYNONYMS

Low-density lipoprotein receptor-related protein 4; Recombinant Human Low-density lipoprotein receptor-related protein 4; Multiple epidermal growth factor-like domains 7; LRP4 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1747-1905aa; Cytoplasmic Domain
Sequence	YRHKKSFTD PGMGNLTYSN PSYRTSTQEV KIEAIPKAM YNQLCYKKEG GPDHNYTKEK IKIVEGICLL SGDDAEWDDL KQLRSSRGGL LRDHVCMTD TVSIQASSGS LDDTETEQLL QEEQSECSSV HTAATPERRG SLPDTGWKHE RKLSSSQV
Sequence Length	1905
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for LRP4 recombinant protein	Mediates SOST-dependent inhibition of bone formation. Functions as a specific facilitator of SOST-mediated inhibition of Wnt signaling. Plays a key role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between motor neuron and skeletal muscle. Directly binds AGRIN and recruits it to the MUSK signaling complex. Mediates the AGRIN-induced phosphorylation of MUSK, the kinase of the complex. The activation of MUSK in myotubes induces the formation of NMJ by regulating different processes including the transcription of specific genes and the clustering of AChR in the postsynaptic membrane. Alternatively, may be involved in the negative regulation of the canonical Wnt signaling pathway, being able to antagonize the LRP6-mediated activation of this pathway. More generally, has been proposed to function as a cell surface endocytic receptor binding and internalizing extracellular ligands for degradation by lysosomes.
Product Categories/Family for LRP4 recombinant protein	Cardiovascular
References	Low density lipoprotein receptor-related protein 10.Ishikawa K., Fujimoto H., Kim D., Saeki S. Identification of high-molecular-weight proteins with multiple EGF-like motifs by motif-trap screening.Nakayama M., Nakajima D., Nagase T., Nomura N., Seki N., Ohara O.Genomics 51:27-34(1998) Human chromosome 11 DNA sequence and analysis including novel gene identification.Taylor T.D., Noguchi H., Totoki Y., Toyoda A., Kuroki Y., Dewar K., Lloyd C., Itoh T., Takeda T., Kim D.-W., She X., Barlow K.F., Bloom T., Bruford E., Chang J.L., Cuomo C.A., Eichler E., FitzGerald M.G., Jaffe D.B., LaButti K., Nicol R., Park H.-S., Seaman C., Sougnez C., Yang X., Zimmer A.R., Zody M.C., Birren B.W., Nusbaum C., Fujiyama A., Hattori M., Rogers J., Lander E.S., Sakaki Y.Nature 440:497-500(2006) LRP4 mutations alter Wnt/beta-catenin signaling and cause limb and kidney malformations in Cenani-Lenz syndrome.Li Y., Pawlik B., Elcioglu N., Aglan M., Kayserili H., Yigit G., Percin F., Goodman F., Nurnberg G., Cenani A., Urquhart J., Chung B.D., Ismail S., Amr K., Aslanger A.D., Becker C., Netzer C., Scambler P., Eyaid W., Hamamy H., Clayton-Smith J., Hennekam R., Nurnberg P., Herz J., Temtamy S.A., Wollnik B.Am. J. Hum. Genet. 86:696-706(2010) Bone overgrowth-associated mutations in the LRP4 gene impair sclerostin facilitator function.Leupin O., Piters E., Halleux C., Hu S., Kramer I., Morvan F., Bouwmeester T., Schirle M., Bueno-Lozano M., Fuentes F.J., Itin P.H., Boudin E., de Freitas F., Jennes K., Brannetti B., Charara N., Ebersbach H., Geisse S., Lu C.X., Bauer A., Van Hul W., Kneissel M.J. Biol. Chem. 286:19489-19500(2011)

NCBI AND UNIPROT INFORMATION

NCBI GI #	157384998
NCBI GeneID	4038
NCBI Accession #	NP_002325.2
NCBI GenBank Nucleotide #	NM_002334.3
UniProt Accession #	O75096; Q4AC85; Q5KTZ5; B2RN39
Molecular Weight	19.9 kDa
NCBI Official Full Name	low-density lipoprotein receptor-related protein 4
NCBI Official Synonym Full Names	LDL receptor related protein 4
NCBI Official Symbol	LRP4
NCBI Official Synonym Symbols	CLSS; CMS17; LRP-4; LRP10; MEGF7; SOST2
NCBI Protein Information	low-density lipoprotein receptor-related protein 4
UniProt Protein Name	Low-density lipoprotein receptor-related protein 4
UniProt Gene Name	LRP4
UniProt Synonym Gene Names	KIAA0816; LRP10; MEGF7; LRP-4
UniProt Entry Name	LRP4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

