

Recombinant Human LRP5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LRP5-5897H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LRP5 MS Standard C13 and N15-labeled recombinant protein (NP_002326) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a transmembrane low-density lipoprotein receptor that binds and internalizes ligands in the process of receptor-mediated endocytosis. This protein also acts as a co-receptor with Frizzled protein family members for transducing signals by Wnt proteins and was originally cloned on the basis of its association with type 1 diabetes mellitus in humans. This protein plays a key role in skeletal homeostasis and many bone density related diseases are caused by mutations in this gene. Mutations in this gene also cause familial exudative vitreoretinopathy. Alternative splicing results in multiple transcript variants.
Molecular Mass	179 kDa
AA Sequence	MEAAPPGPPWPLLLLLLLLLLALCGCPAPAAASPLLLFANRRDVRLVDAGGVKLESTIV VSGLEDAAAVDFQFSKGAVYWTDVSEEAIKQTYLNQTGA AVQNVVISGLVSPDGLA CDWVGKKLYWTDSETNRIEVANLNGTSRKVLFWQDLDPRAIALDPAHGYMYWTD WGETPRIERAGMDGSTRKIIVDSDIYWPNGLTIDLEE QKLYWADAKLSFIHRANLDGS FRQKVVEGSLTHPFALTLSGDTLYWTDWQTRSIHACNKRTGGKRKEILSALYSPMDI

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QVLSQERQPPFFHTRCEEDNGGCSHLCLLSPSEPFYTCACPTGVQLQDNGRTCKAG
 AEEVLLLARRTDLRRISLDTPDFTDIVLQVDDIRHAIADYDPLEGYVYWTDDEVRAIR
 RAYLDGSGAQLVNTEINDPDGIAVDWVARNLYWTDGTDRIEVTRLNGTSRKILVS
 EDLDEPRAIALHPVMGLMYWTDWGENPKIECANLDGQERRVLVNASLGPNGLAL
 DLQEGKLYWGDAKTDKIEVINVDGTRRRTLLEDKLPHFIFTLLGDFIYWTDWQRRSI
 ERVHKVKASRDVIDQLPDLMLKAVNVAKVVGTPCADRNGGCSHLCCFFTPHATR
 CGCPIGLELLSDMKTICIVPEAFVFTSRAAIHRISLETNNNDVAIPLTGVKEASALDFD
 VSNNHIYWTDVSLKTISRAFMNGSSVEHVVEFGLDYPEGMAVDWMGKNLYWADTG
 TNRIEVARLDGQFRQVLVWRDLNPRSLALDPTKGYIYWTEWGGKPRIVRAFMDGT
 NCMTLVDKVGRANDLTIDYADQRLYWTDLDTNMIESSNMLGQERVVIADDLPHFPG
 LTQYSDYIYWTDWNLHSIERADKTSGRNRTLIQGHLDVMDILVFHSSRQDGLNDCM
 HNNGQCGQLCLAIPEGGHRCGCASHYTLDPSSRNCSPPTTFLFSQKSAISRMIPDD
 QHSPDLILPLHGLRNVKAIDYDPLDKFIYWVDGRQNIKRAKDDGTQPFVLTSLSQGQ
 NPDRQPHDLSIDIYSRTLFWTCEATNTINVHRLSGEAMGVVLRGDRDKPRAIVVNAE
 RGYLYFTNMQDRAAKIERAALDGTREVLFTTGLIRPVALVVDNTLGKLFWVDADLK
 RIESCDLSGANRLTLEDANIVQPLGLTILGKHLWIDRQQQMIERVEKTTGDKRTRIQ
 GRVAHLTGIHAVEEVSLEEFSAHPCARDNGGCSHICIAKGDGTPRCSCPVHLVLLQN
 LLTCGEPPTCSPDQFACATGEIDCIPGAWRCDGFPECDDQSDEEGCPVCSAAQFP
 CARGQCVDLRLRCDGEADCQDRSDEVDCDAICLPNQFRCASGQCVLIKQQCDSFP
 DCIDGSDELMCEITKPPSDDSPAHSASGIPVIGIILSLFVMGGVYFVCQRVVCQRYAG
 ANGPFPHYVSGTPHVPLNFIAPGGSQHGPFTGIACGKSMSSVSLMGGRGVPL
 YDRNHVTGASSSSSSSTKATLYPPILNPPSPATDPSLYNMDMFYSSNIPATARPYPYR
 PYIIRGMAPPPTTPCSTDVCDSDYSASRWKASKYYLDLNSDSDPYPPPPTPHSQYLSA
 EDSCPPSPATERSYFHLFPPPPSPCTDSSTRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

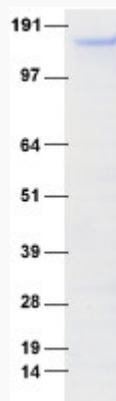
Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	LRP5 low density lipoprotein receptor-related protein 5 [Homo sapiens (human)]
Official Symbol	LRP5
Synonyms	LRP5; low density lipoprotein receptor-related protein 5; EVR1, exudative vitreoretinopathy 1, LRP7, OPPG, osteoporosis pseudoglioma syndrome; low-density lipoprotein receptor-related protein 5; BMND1; HBM; LR3; OPS; LRP-5; low density lipoprotein receptor-related protein 7; EVR1; EVR4; LRP7; OPPG; OPTA1; VBCH2;
Gene ID	4041
mRNA Refseq	NM_002335
Protein Refseq	NP_002326
MIM	603506
UniProt ID	O75197

SDS-PAGE

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