

Bioactive

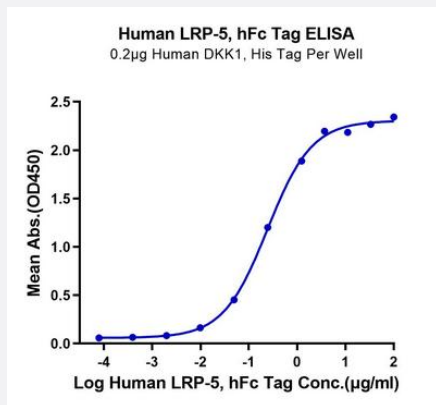
HuPro®

LRP5 (Human) Recombinant Protein

Catalog # P9734

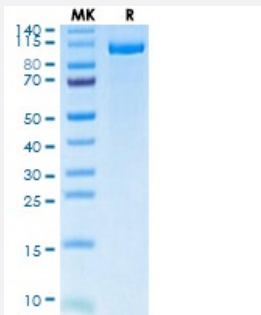
Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human DKK1, His Tag at 2 ug/mL (100 uL/well) on the plate. Dose response curve for Human LPR-5, hFc Tag with the EC50 of 0.24 ug/mL determined by ELISA.



Tris-Bis PAGE

Human LRP-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description

Human LRP5 (O75197-1, 644 a.a. - 1263 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.

Sequence	EAFLVFTSRAAIHRISLETNNNDVAIPLTGVKEASALDFDVSNNHIWTDVSLKTISRAFMNGSSVE HVVEFGLDYPEGMAVDWMGKNLYWADTGTNRIEVARLDGQFRQVLVWRDLNPRSLALDPTKG YYWTEWGGKPRMRAFMDGTNCMTLVDKVGRANDLTIDYADQRLYWTDLDTNMISSNMLGQER VVIADDLPHPFGLTQYSDYYWTDWNLHSIERADKTSGRNRTLQGHLDVMDILVFHSSRQDGLND CMHNNGQCGLCLAIPGGHRCGCASHYTLDPSSRNCSPPTTFLFSQKSAISRMIPDDQHSPDLI LPLHGLRNVKAIDYDPLDKFYWVDGRQNIKRAKDDGTQPFVLTSLSQGQNPDRQPHDLSIDIYSRT LFWTCEATNTINVHRLSGEAMGVVLRGDRDKPRAMVNAERGYLYFTNMQDRAAKIERAALDGTE REVLFTTGLIRPVALVDNTLGKLFWVDADLKRIESCDLSGANRLTLEDANIVQPLGLTILGKHL YWI DRQQQMIERVEKTTGDKRTRIQGRVAHLTGIHAVEEVSLLEESAHPCARDNGGC SHICIAKGDGTP RCSCPVHLVLLQNL LTCGEPPTCSPDQ
Host	Human
Theoretical MW (kDa)	96.51000000000001
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 0.24 ug/mL, measured by ELISA at 2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE Tris-Bis PAGE Human LRP-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

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- Functional Study

- [SDS-PAGE](#)

Gene Info — LRP5

Entrez GeneID	4041
Protein Accession#	O75197-1
Gene Name	LRP5
Gene Alias	BMND1, EVR1, EVR4, HBM, LR3, LRP7, OPPG, OPS, OPTA1, VBCH2
Gene Description	low density lipoprotein receptor-related protein 5
Omim ID	144750 166710 259770 601813 601884 603506 607634 607636
Gene Ontology	Hyperlink
Other Designations	exudative vitreoretinopathy 1 low density lipoprotein receptor-related protein 7 osteoporosis pseudo glioma syndrome

Pathway

- [Wnt signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Arthritis](#)
- [Atherosclerosis](#)
- [Body Weight](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cerebral Hemorrhage](#)
- [Coronary Artery Disease](#)

- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Femoral Neck Fractures](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Glucose Intolerance](#)
- [Hip Fractures](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoarthritis](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Polycystic Ovary Syndrome](#)
- [Pulmonary Disease](#)
- [Spinal Fractures](#)
- [Spondylarthritis](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)

- [Syndrome](#)
- [Urinary Bladder Neoplasms](#)
- [Vitreoretinopathy](#)
- [Werner syndrome](#)