

Human LRP-5 Protein



Cat. No. LRP-HM205

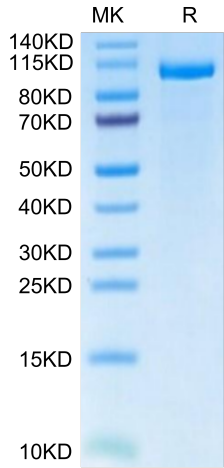
Description	
Source	Recombinant Human LRP-5 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu644-Gln1263.
Accession	O75197-1
Molecular Weight	The protein has a predicted MW of 96.51 kDa. Due to glycosylation, the protein migrates to 100-115 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage	
Formulation	Supplied as 0.22µm filtered solution in PBS, 100mM L-arginine (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
A role for low-density lipoprotein-related receptor 5 (LRP5) in human bone was first established by the identification of genetic alterations that led to dramatic changes in bone mass. Shortly thereafter, mutations that altered the function of the sclerostin (SOST) gene were also associated with altered human bone mass. Subsequent studies of LRP5 and sclerostin have provided important insights into the mechanisms by which these proteins regulate skeletal homeostasis.	

Assay Data

Tris-Bis PAGE



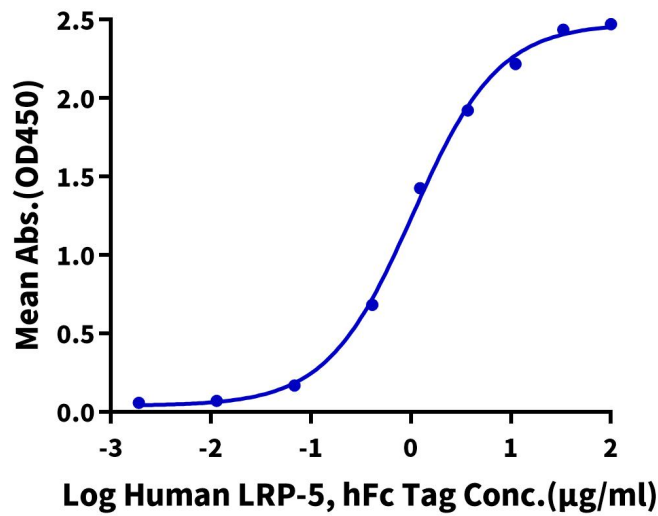
Human LRP-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

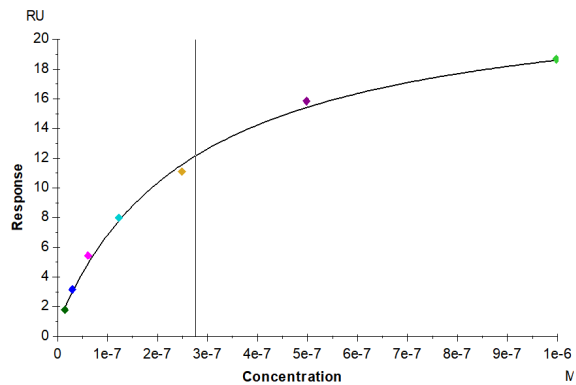
Human LRP-5, hFc Tag ELISA

0.2µg Human DKK1, His Tag Per Well



Immobilized Human DKK1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human LPR-5, hFc Tag with the EC50 of 1.04µg/ml determined by ELISA.

SPR Data



Human LRP-5, hFc Tag captured on CM5 Chip via Protein A can bind Human DKK1, His Tag with an affinity constant of 0.28 µM as determined in SPR assay (Biacore T200).