

Human LRP-6 Protein

Cat. No. LRP-HM316

Description

Source	Recombinant Human LRP-6 Protein is expressed from HEK293 with mFc (IgG2a) tag at the C-terminus. It contains Ala20-Pro630.
Accession	O75581-1
Molecular Weight	The protein has a predicted MW of 95.32 kDa. Due to glycosylation, the protein migrates to 97-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

Formulation and Storage

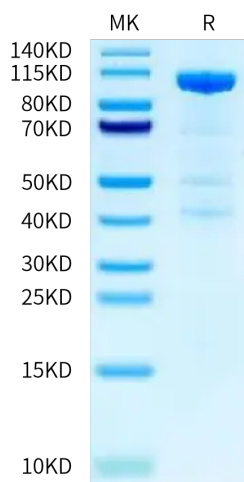
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Low-density lipoprotein receptor protein 6 (LRP6) is a Wnt co-receptor with essential functions in the Wnt/ β -catenin pathway, and mutations in LRP6 gene are linked to many complex human diseases, including metabolic syndrome, cancer, Alzheimer's disease and osteoporosis. LRP-6 interacts closely with PDGF receptor β and TGF- β receptor 1 at the cell membrane, suggesting that it may have roles in pathways other than WNT/ β -catenin.

Assay Data

Bis-Tris PAGE

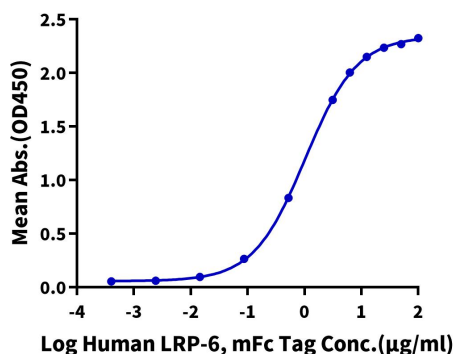


Human LRP-6 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

ELISA Data

Human LRP-6, mFc Tag ELISA

0.5 μg Human DKK1, His Tag Per Well



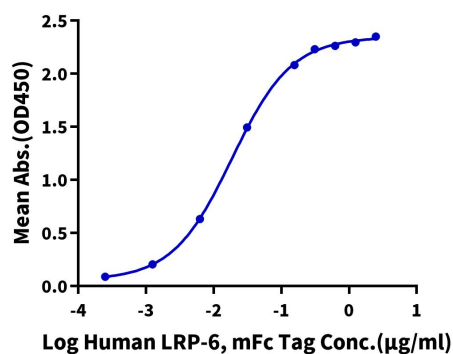
Immobilized Human DKK1, His Tag at 5 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) on the plate. Dose response curve for Human LRP-6, mFc Tag with the EC50 of 1.03 $\mu\text{g}/\text{ml}$ determined by ELISA (QC Test).

Assay Data

ELISA Data

Human LRP-6, mFc Tag ELISA

0.1µg Human SOST, His Tag Per Well

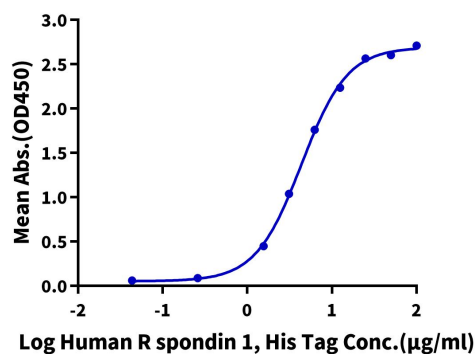


Immobilized Human SOST, His Tag at 1µg/ml(100µl/well) on the plate. Dose response curve for Human LRP-6, mFc Tag with the EC50 of 18.6ng/ml determined by ELISA.

ELISA Data

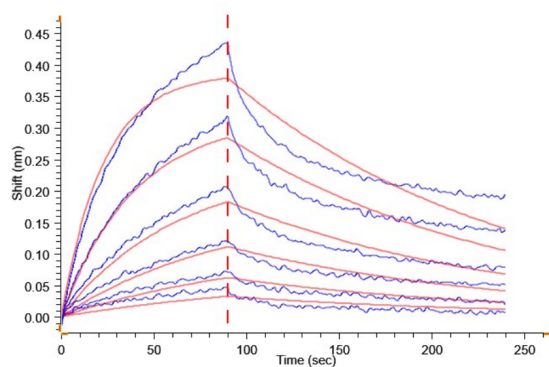
Human LRP-6, mFc Tag ELISA

0.5µg Human LRP-6, mFc Tag Per Well



Immobilized Human LRP-6, mFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human R spondin 1, His Tag with the EC50 of 4.4µg/ml determined by ELISA.

BLI Data



Loaded Human R spondin 1, His Tag on Anti-His-Biosensor can bind Human LRP-6, mFc Tag with an affinity constant of 8.97 nM as determined in BLI assay.