

Human CellExp™ LRP-5, Fc Tag, Human Recombinant

CATALOG NO: P1457-10 10 µg
P1457-50 50 µg

ALTERNATE NAMES: LRP-5, LRP-5, LRP-7, LRP7, LR3

MOL. WT. This protein carries a mouse IgG2a Fc tag at the C-terminus. The protein has a calculated MW of 96.6 kDa. The protein migrates as 110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

SOURCE: HEK 293 cells

PURITY: >90% SDS-PAGE

ENDOTOXIN: Less than 0.1 EU per µg by the LAL method.

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

RECONSTITUTION: Reconstitute in sterile deionized water to the desired protein concentration.

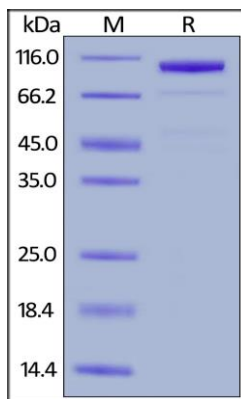
SPECIFIC ACTIVITY: Immobilized Biotinylated Human Dkk-1, Fc, Avitag at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 0.5-16 ng/mL

Immobilized Human Dkk-1, His Tag 5 µg/mL (100 µL/well) can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 0.01-0.313 µg/mL

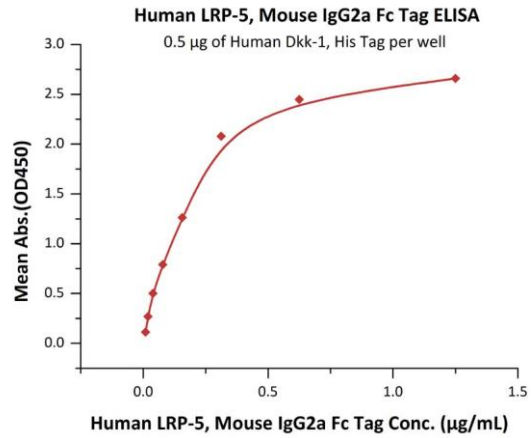
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.

DESCRIPTION: Low-density lipoprotein receptor-related protein 5(LRP-5) is also known as BMND1, EVR1, EVR4, HBM, LR3, LRP7, OPPG, OPTA1, VBCH2, LDL receptor related protein 5 and PCLD4. LRP5 is a transmembrane low-density lipoprotein receptor that shares a similar structure with LRP6. LRP5 acts as a co-receptor with LRP6 and the Frizzled protein family members for transducing signals by Wnt proteins through the canonical Wnt pathway. This protein plays a key role in skeletal homeostasis. Mutations in LRP5 can lead to considerable changes in bone mass. A loss-of-function mutation causes osteoporosis-pseudoglioma (decrease in bone mass), while a gain-of-function mutation causes drastic increases in bone mass.

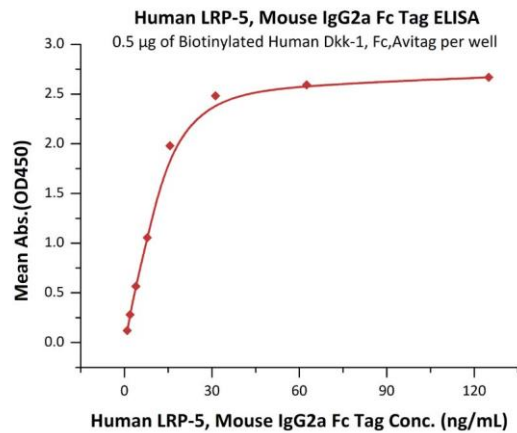
AMINO ACID SEQUENCE: Glu 644 - Gln 1263



Human LRP-5, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.



Immobilized Human Dkk-1, His Tag 5 µg/mL (100 µL/well) can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 0.01-0.313 µg/mL



Immobilized Biotinylated Human Dkk-1, Fc,Avitag at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 0.5-16 ng/mL

RELATED PRODUCTS:

- Human CellExp™ Frizzled-2 / FZD2 Protein, Human recombinant (P1026)
- Human CellExp™ Frizzled-4 / FZD4 Protein, Human recombinant (P1027)
- Human CellExp™ Frizzled-7 / FZD7 Protein, Human recombinant (P1029)
- Human CellExp™ Frizzled-5 / FZD5 Protein, Human recombinant (P1028)

FOR RESEARCH USE ONLY! Not to be used on humans.