

LRP-6 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	LDL receptor related protein 6;ADCAD2
Protein Construction:	A DNA sequence encoding the Human LRP6 (O75581) (Met1-Pro630) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Ala 20
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O75581
Molecular Weight:	95.69 kDa (predicted); 97.22 kDa (reducing conditions)

QC Testing

Biological Activity:	Immobilized Recombinant Human R-Spondin 1 / RSP01 Protein (His Tag) at 2µg/mL (100µL/well) can bind Recombinant Human LRP6 Protein (Fc Tag) , the EC50 is 120-360 ng/mL.
Purity:	≥ 90 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Lipoprotein receptor-related protein 6 (LRP6) binds to Wnt ligands to transduce signal by stabilization of beta-catenin, which has been involved in the regulation of embryonic development and metabolism. Low density lipoprotein (LDL) receptor-related protein-6 (LRP6) is an important co-receptor of Wnt pathway, which plays a predominant role in the development and progression of colorectal cancer. This gene, termed LDL receptor-

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related protein 6 (LRP6), encodes a transmembrane protein that has 71% identity and is structurally similar to the protein encoded by LRP5, a proposed candidate gene for type 1 diabetes located on human chromosome 11q13. LRP6 maps to human chromosome 12p11-p13.

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