

## LRP-6 Protein, Human, Recombinant (His)

### General Information

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|-----------------------|--|
| Synonyms:             | LDL receptor related protein 6;ADCAD2  |
| Protein Construction: | A DNA sequence encoding the Human LRP6 (O75581-1) (Met1-Pro630) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ala 20 |
| Species:              | Human  |
| Expression Host:      | HEK293 Cells   |
| Accession:            | O75581-1   |
| Molecular Weight:     | 70.41 kDa (predicted); 77.22 kDa (reducing conditions)   |

### QC Testing

|                      |  |
|----------------------|--|
| Biological Activity: | Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.   |
| Purity:              | ≥ 90 % as determined by SDS-PAGE.  |
| 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-related protein 6 (LRP6), encodes a transmembrane protein that has 71% identity and is structurally similar to the

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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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