

# **Recombinant Human Frizzled-2/FZD2 Protein**

Catalog No.: RP01422 Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot Human 2535 014332

**Tags** C-hFc&His

Synonyms

Fz2; fz-2; fzE2; hFz2; OMOD2;FZD2

### **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

42.55 kDa 50-55 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### Contact

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### **Background**

Frizzled-2 (FZD2) is also known as FzE2, which belongs to the G-protein coupled receptor Fz/Smo family. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. FZD2 contains one FZ (frizzled) domain. FZD2 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. The Lys-Thr-X-X-X-Trp motif of FZD2 interacts with the PDZ doman of Dvl (Disheveled) family members and is involved in the activation of the Wnt/beta-catenin signaling pathway.

### **Basic Information**

#### **Description**

Recombinant Human Frizzled-2/FZD2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln24-Leu163) of human Frizzled-2/FZD2 (Accession  $\#NP_001457.1$ ) fused with a Fc,  $6\times$ His tag at the C-terminus.

#### **Bio-Activity**

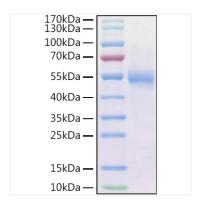
#### **Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## **Validation Data**



Recombinant Human Frizzled-2/FZD2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.