

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

293 cells ≥ 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 μ 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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

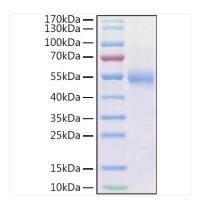
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



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