Recombinant FZD2 protein (His tag)

Catalog Number	547299
Synonyms	Fz-2; hFz2; FzE2
Species	Human
Expression System	E. coli
Accession	Q14332
Molecular Weight	Predictes a molecular mass of 14.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	38-152
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 38-152 aa (Q14332) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Frizzled-2 (Fz-2) Fragment (aa 38-152) - A high-quality, soluble protein fragment ideal for structural studies and biochemical characterization of this important Wnt signaling receptor. This 115-amino acid fragment represents a stable, computationally optimized region of the FZD2 protein, providing researchers with a reliable tool for investigating Wnt receptor biology. Frizzled-2 (FZD2) is a multi-pass membrane protein that functions as a receptor for Wnt proteins in the canonical beta-catenin signaling pathway. This receptor activates disheveled proteins, inhibits GSK-3 kinase, and facilitates nuclear accumulation of beta-catenin, ultimately regulating Wnt target gene expression. Additionally, Frizzled-2 serves as a receptor for Clostridium difficile toxin TcdB in colonic epithelium, where toxin binding competitively inhibits Wnt signaling by occupying the palmitoleate binding site. Located primarily in the cell membrane, Frizzled-2 plays crucial roles in tissue morphogenesis and cellular polarity transmission, making it a significant target for developmental biology and disease research.