Recombinant FRIZ2 protein (His tag)

Catalog Number	532978
Synonyms	dFz2
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VVX3
Gene ID	40090
Molecular Weight	Predictes a molecular mass of 15.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	63-180
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 63-180 aa (Q9VVX3) 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 Frizzled-2 (dFz2) Fragment (residues 63-180) from Drosophila melanogaster is a high-purity, soluble protein fragment engineered for structural and biochemical studies. This 118-amino acid fragment represents a stable region of the Wnt receptor, offering researchers a reliable tool to investigate receptor function and signaling mechanisms. Frizzled-2 (dFz2) serves as a receptor for Wnt proteins in Drosophila melanogaster, primarily coupling to the beta-catenin canonical signaling pathway. This pathway involves activation of disheveled proteins, inhibition of GSK-3 kinase, and nuclear accumulation of beta-catenin, ultimately regulating Wnt target genes. The receptor also potentially interacts with G-proteins and plays a crucial role in coordinating epidermal cell cytoskeletons to form cuticular hairs and bristles. As a multi-pass membrane protein localized to the cell membrane, Frizzled-2 is essential for developmental processes and cell signaling. The provided fragment (63-180) represents a stable, soluble region selected for experimental applications without containing known functional domains.