Recombinant APCD1 protein (His tag)

Catalog Number	538472
Synonyms	Adenomatosis polyposis coli down-regulated 1 protein
Species	Human
Expression System	E. coli
Accession	Q8J025
Molecular Weight	Predictes a molecular mass of 49.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	50-467
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 50-467 aa (Q8J025) 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	Introducing the recombinant Protein APCDD1 fragment (amino acids 50-467), a high-quality reagent designed for studying Wnt signaling regulation. This 418-amino acid fragment offers a stable and soluble unit ideal for structural, biochemical, and functional assays, enabling researchers to investigate key mechanisms in cellular signaling pathways. Protein APCDD1 (Adenomatosis polyposis coli down-regulated 1 protein) is a human single-pass type I membrane protein localized to the cell membrane. It functions as a negative regulator of the Wnt signaling pathway, operating upstream of β-catenin and inhibiting Wnt signaling in a cell-autonomous manner. APCDD1 interacts directly with Wnt and LRP proteins to modulate pathway activity and has been implicated in colorectal tumorigenesis, making it a significant target for cancer and developmental biology research.