Recombinant IQCE protein (His tag)

Catalog Number	542897
Species	Human
Expression System	E. coli
Accession	Q6IPM2
Molecular Weight	Predictes a molecular mass of 26.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	141-355
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 141-355 aa (Q6IPM2) 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 IQCE (IQ domain-containing protein E) Fragment (aa 141-355) is a high-purity, stable protein product designed for structural and biochemical studies. This 215-amino acid fragment, derived from the human IQCE protein, is computationally optimized for solubility and stability, making it an ideal tool for investigating ciliary Hedgehog signaling and limb morphogenesis mechanisms. IQ domain-containing protein E (IQCE) is a crucial component of the EvC complex that positively regulates ciliary Hedgehog (Hh) signaling pathways. This protein plays an essential role in proper limb morphogenesis, as evidenced by research findings (PubMed:28488682). IQCE localizes to the ciliary membrane in cell projections, specifically at the base of primary cilia in the EvC zone, where it functions as a peripheral membrane protein on the cytoplasmic side. The protein's strategic positioning at the ciliary base underscores its importance in coordinating Hedgehog signaling events critical for developmental processes.