Recombinant TEDC1 protein (His tag)

Catalog Number	549553
Species	Human
Expression System	E. coli
Accession	Q86SX3
Molecular Weight	Predictes a molecular mass of 15.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	1-129
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 1-129 aa (Q86SX3) 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 Tubulin epsilon and delta complex protein 1 (TEDC1) fragment (residues 1-129) from Homo sapiens, designed for structural and biochemical studies. This stable, soluble fragment supports research into ciliary signaling and centriole stability mechanisms. Tubulin epsilon and delta complex protein 1 (TEDC1) positively regulates ciliary hedgehog signaling and is essential for centriole stability. It also plays a role in maintaining actin filament integrity under disruptive conditions, such as exposure to actin-depolymerizing agents like Chivosazole F. The protein localizes to the cilium in cell projections and is associated with the centrosome and centriole within the cytoskeleton, highlighting its importance in cellular structure and signaling pathways.