Recombinant IFT43 protein (His tag)

Catalog Number	545676
Species	Human
Expression System	E. coli
Accession	Q96FT9
Molecular Weight	Predictes a molecular mass of 14.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	101-208
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 101-208 aa (Q96FT9) 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 Intraflagellar transport protein 43 homolog (IFT43) fragment (residues 101-208) is a highly stable and soluble protein unit ideal for structural and functional studies. This fragment supports research into ciliary transport mechanisms and ciliogenesis, offering a reliable tool for biochemical and structural analysis. The full-length Intraflagellar transport protein 43 homolog (IFT43) is a component of the IFT complex A (IFT-A), which is essential for retrograde ciliary transport and the entry of G protein-coupled receptors (GPCRs) into cilia. It plays a critical role in ciliogenesis by facilitating transport along microtubules from the ciliary tip to the base. IFT43 is localized in the cytoplasm, associated with the cytoskeleton and microtubules, and specifically found in cell projections such as cilia, including at the distal tip. Its functions are supported by studies linking it to ciliary dynamics and protein trafficking, making it significant for understanding cellular signaling and structural processes.