Recombinant IFT46 protein (His tag)

Catalog Number	548328
Species	Human
Expression System	E. coli
Accession	Q9NQC8
Molecular Weight	Predictes a molecular mass of 25.84 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	64-274
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 64-274 aa (Q9NQC8) 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 46 homolog (IFT46) fragment (residues 64-274) is a high-quality, soluble protein designed for structural and functional studies. This 211-amino acid fragment offers a stable and well-expressed unit ideal for investigating intraflagellar transport mechanisms and ciliary biology. The full-length Intraflagellar transport protein 46 homolog (IFT46) is a crucial component of the intraflagellar transport (IFT) complex, which mediates bidirectional movement of particles essential for the assembly, maintenance, and function of primary cilia. According to UniProt annotation (Q9NQC8), IFT46 may also contribute to chondrocyte maturation and skeletogenesis. The protein localizes to the cytoplasm, specifically at the cilium basal body and along the cilium projection, highlighting its direct involvement in ciliary structure and function. This recombinant fragment represents a stable, soluble region selected through computational analysis to facilitate biochemical and structural research into IFT processes.