Recombinant MYO7B protein (His tag)

Catalog Number	542927
Species	Human
Expression System	E. coli
Accession	Q6PIF6
Molecular Weight	Predictes a molecular mass of 30.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	628-871
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 628-871 aa (Q6PIF6) 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 Unconventional Myosin-VIIb (MYO7B) Fragment (aa 628-871) – a high-purity protein designed for studying the IQ domain-mediated functions in actin-based motility and microvilli organization. Unconventional myosin-VIIb is an actin-based motor protein with ATPase activity, crucial for epithelial brush border differentiation. It functions within the intermicrovillar adhesion complex (IMAC) to regulate microvilli organization and length by linking the complex to actin core bundles. Localized to the cytoplasm, cytoskeleton, and microvilli of the intestinal brush border, this protein plays a key role in cellular structure and motility. The provided fragment encompasses IQ domains 1-5, enabling targeted investigation into their specific roles in myosin-VIIb function.