Recombinant TMOD3 protein (His tag)

Catalog Number	549945
Synonyms	Ubiquitous tropomodulin; U-Tmod
Species	Human
Expression System	E. coli
Accession	Q9NYL9
Molecular Weight	Predictes a molecular mass of 22.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	171-352
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 171-352 aa (Q9NYL9) 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 Tropomodulin-3 (TMOD3) Fragment (aa 171-352) is a stable, soluble protein fragment designed for structural and biochemical studies. This product captures a key region of Tropomodulin-3, which plays a critical role in regulating actin filament dynamics at the pointed end, offering researchers a reliable tool for investigating cytoskeletal mechanisms. Tropomodulin-3 (TMOD3), also known as Ubiquitous Tropomodulin, is a cytoskeletal protein localized in the cytoplasm and cytoskeleton. Its primary function is to block the elongation and depolymerization of actin filaments at the pointed end, thereby stabilizing actin structures. Through its interaction with tropomyosin, Tropomodulin-3 contributes to the formation of short actin protofilaments, which help define the geometry of the membrane skeleton. This protein is essential for maintaining cytoskeletal integrity and regulating actin-based cellular processes, making it a significant target for research in cell biology and structural studies.