Recombinant ACTT2 protein (His tag)

Catalog Number	551870
Synonyms	ARP-T2; Actin-related protein M2
Species	Human
Expression System	E. coli
Accession	Q8TDY3
Molecular Weight	Predictes a molecular mass of 43.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	1-377
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 1-377 aa (Q8TDY3) 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	Introducing our high-purity recombinant human Actin-related protein T2 (ARP-T2/ARP-M2) fragment (residues 1-377). This stable and soluble protein unit is expertly designed for structural biology and biochemical studies, offering researchers a reliable tool to investigate cytoskeletal dynamics and actin-related processes. Actin-related protein T2 (ARP-T2), also known as Actin-related protein M2, is encoded by the gene ACTRT2 in humans. According to UniProt annotation (Q8TDY3), this protein is localized to the cytoplasm and cytoskeleton. This subcellular positioning strongly suggests its involvement in fundamental cellular processes related to cytoskeletal organization, structure, and remodeling. Actin-related proteins are crucial regulators of cell shape, motility, division, and intracellular transport. The provided fragment (1-377) represents a computationally selected, stable domain ideal for elucidating the molecular mechanisms underlying these vital cellular functions.