Recombinant ACTMP protein (His tag)

Catalog Number	540446
Synonyms	Actin aminopeptidase ACTMAP
Species	Human
Expression System	E. coli
Accession	Q5BKX5
Molecular Weight	Predictes a molecular mass of 33.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	54-351
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 54-351 aa (Q5BKX5) 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 Actin maturation protease (EC 3.4.11.-), also known as Actin aminopeptidase ACTMAP, is a high-purity fragment (residues 54-351) designed for structural and biochemical studies. This 298-amino acid construct facilitates research into actin maturation mechanisms by enabling analysis of protease activity in a stable, soluble format. Actin maturation protease (ACTMAP) is a cytoplasmic enzyme essential for actin maturation in humans. It specifically cleaves the N-terminal acetylated residues of immature actin isoforms, including cytoplasmic beta- and gamma-actins (ACTB and ACTG1) and muscle alpha-actins (ACTA1, ACTC1, and ACTA2). This processing step is critical for generating functional actin proteins involved in cellular structure and motility. The protein's localization to the cytoplasm aligns with its role in post-translational modification of cytoskeletal components.