Recombinant ARP10 protein (His tag)

Catalog Number	549113
Synonyms	Actin-related protein 11; hARP11
Species	Human
Expression System	E. coli
Accession	Q9NZ32
Molecular Weight	Predictes a molecular mass of 44.38 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	1-386
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-386 aa (Q9NZ32) 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 Actin-related protein 10 (ACTR10) Fragment (1-386) is a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable, soluble unit of hARP11, optimized for research on microtubule-based transport mechanisms. Actin-related protein 10 (hARP11) is a key component of the dynactin complex, which activates the molecular motor dynein to enable ultra-processive transport along microtubules. This process is essential for intracellular cargo movement and cellular organization. The protein is localized to the cytoplasm and cytoskeleton, where it contributes to the regulation of dynein-mediated motility. The provided fragment (residues 1-386) was selected computationally to ensure stability and solubility, facilitating experimental investigations into its structural and functional properties.