Recombinant ARP2 protein (His tag)

Catalog Number	534535
Synonyms	Actin-like protein 2; Actin-like protein C
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	P53489
Gene ID	179440
Molecular Weight	Predictes a molecular mass of 46.50 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	1-395
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 1-395 aa (P53489) 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-related protein 2 (ARP2) fragment from Caenorhabditis elegans, encompassing residues 1-395, designed for structural and biochemical studies. This stable, soluble fragment retains key functional regions, enabling research into actin polymerization dynamics and neuronal memory mechanisms. Actin-related protein 2 (ARP2) functions as an ATP-binding component of the Arp2/3 complex, which regulates actin polymerization and, with nucleation-promoting factors, mediates branched actin network formation. It contacts the pointed end of daughter actin filaments and plays a role in time-dependent memory loss and retention of conditioned behavior. The protein is localized to the cytoplasm and cytoskeleton, highlighting its involvement in cellular structure and neural processes.