Recombinant ARC1A protein (His tag)

Catalog Number	549603
Synonyms	SOP2-like protein
Species	Human
Expression System	E. coli
Accession	Q92747
Molecular Weight	Predictes a molecular mass of 43.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	1-370
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 1-370 aa (Q92747) 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	This recombinant protein product features a stable and soluble fragment (residues 1-370) of the Actin-related protein 2/3 complex subunit 1A (SOP2-like protein), derived from Homo sapiens. It is designed for structural and biochemical studies, offering researchers a functional unit for investigating actin polymerization regulation. The full-length Actin-related protein 2/3 complex subunit 1A, encoded by the ARPC1A gene, functions as a key component of the Arp2/3 complex, which regulates actin polymerization. Together with a nucleation-promoting factor, it mediates the formation of branched actin networks, essential for cytoskeletal dynamics. Subcellularly, it is localized in the cytoplasm and cytoskeleton, with additional presence in the nucleus, highlighting its role in cellular architecture and potentially nuclear processes.