

Recombinant Mouse ARPIN Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52090

Size: 10ug, 100ug

Protein Name: Arpin (Arp2/3 inhibition protein)

Synonym: Arpin

UniProt ID: Q9D0A3

UniProt Link: www.uniprot.org/uniprotkb/Q9D0A3/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 226 AA

Molecular Weight: 25 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSRIYQDSALRNKAVQSARLPGTWDPATHQGGNGILLEGELVDVSRHSILDAHGRKERYVLYIQPS
CIHRRKFDPKGNIEPNFSATRKVNTGFLMSSYKVEAKGDTDRLTLEALKSLVNKPQLLELTESLTPD
QAVAFWMPPESEMEVMELELGTGVRLKTRGDGPFIDSLAKLELGTVTCKCNFAGDGKTGASWTDNIMA
QKSSERNTAEIREQGDGAEEDEWDD

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Arpin (Arp2/3 inhibition protein) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Regulates actin polymerization by inhibiting the actin-nucleating activity of the Arp2/3 complex; the function is competitive with nucleation promoting factors. Participates in an incoherent feedforward loop at the lamellipodium tip where it inhibits the ARP2/2 complex in response to Rac signaling and where Rac also stimulates actin polymerization through the WAVE complex. Involved in steering cell migration by controlling its directional persistence (By similarity).

Subcellular Localization: Cell projection, lamellipodium . Note=Colocalized with the WAVE complex at lamellipodium tip.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.