

Recombinant Mouse Arpc2 Protein, Myc/DDK-tagged

Cat. No. Arpc2-1725M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length actin related protein 2/3 complex, subunit 2 (Arpc2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Actin-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility. Seems to contact the mother actin filament. In addition to its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA. The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs).
Molecular Mass	34.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name *Arpc2* actin related protein 2/3 complex, subunit 2 [*Mus musculus* (house mouse)]

Official Symbol *Arpc2*

Synonyms ARPC2; actin related protein 2/3 complex, subunit 2; actin-related protein 2/3 complex subunit 2; arp2/3 complex 34 kDa subunit; 34kDa; p34-Arc; 2210023N03Rik

Gene ID 76709

mRNA Refseq NM_029711

Protein Refseq NP_083987

UniProt ID Q9CVB6

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