

Recombinant Mouse Arpc5 Protein, Myc/DDK-tagged

Cat. No. Arpc5-1727M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length actin related protein 2/3 complex, subunit 5 (Arpc5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. 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	16.3 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
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Arpc5 actin related protein 2/3 complex, subunit 5 [Mus musculus (house mouse)]
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Official Symbol	Arpc5
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Synonyms	ARPC5; actin related protein 2/3 complex, subunit 5; actin-related protein 2/3 complex subunit 5; arp2/3 complex 16 kDa subunit; p16-Arc; 5830443F10Rik
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Gene ID	67771
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mRNA Refseq	NM_026369
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Protein Refseq	NP_080645
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UniProt ID	Q9CPW4
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