

## Recombinant Mouse Arpc5 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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).
<b>Molecular Mass</b>	16.3 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	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** *Arpc5* actin related protein 2/3 complex, subunit 5 [ *Mus musculus* (house mouse) ]

**Official Symbol** *Arpc5*

**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

**Gene ID** 67771

**mRNA Refseq** NM\_026369

**Protein Refseq** NP\_080645

**UniProt ID** Q9CPW4

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