

Recombinant Human actin related protein 2/3 complex, subunit 5, 16kDa, His-tagged

Cat. No. ARPC5-696H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARPC5, 1-151aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-151 a.a.
Description	p16-ARC, also known as ARPC5, is a 151 amino acid subunit of the Arp2/3 complex. Thought to play a role in maintaining the integrity of Arp2/3, ARPC5 is a substrate for MAPKAPK-2 which, through phosphorylation of ARPC5, may participate in Arp2/3 regulatory functions and remodeling of the Actin cytoskeleton. Two isoforms of ARPC5 exist due to alternative splicing events. Recombinant human ARPC5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.1M NaCl
Molecular Mass	18.4 kDa (171aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSKNTVSSAR FRKVDVDEYD ENKFVDEEDG GDGQAGPDEG EVDSCLRQGN MTAALQAALK NPPINTKSQA VKDRAGSIVL KVLISFKAND IEKAVQSLDK NGVDLLMKYI YKGFESPSDN SSAMLLQWHE

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	KALAAGGVGS IVRVLTARKT V
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	ARPC5 actin related protein 2/3 complex, subunit 5, 16kDa [Homo sapiens]
Official Symbol	ARPC5
Synonyms	ARPC5; actin related protein 2/3 complex, subunit 5, 16kDa; actin related protein 2/3 complex, subunit 5 (16 kD); actin-related protein 2/3 complex subunit 5; ARC16; Arp2/3 protein complex subunit p16; dJ127C7.3; p16 Arc; arp2/3 complex 16 kDa subunit; p16-Arc; MGC88523;
Gene ID	10092
mRNA Refseq	NM_005717
Protein Refseq	NP_005708
MIM	604227
UniProt ID	O15511
Chromosome Location	1q

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Pathway

B Cell Receptor Signaling Pathway, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; CDC42 signaling events, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem;

Function

actin binding; protein binding; structural constituent of cytoskeleton;

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