

# Recombinant Human ARPC5, His-tagged

**Cat. No.** ARPC5-3539H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant humanARPC5 protein, fused to His-tag at N-terminus, was expressed in E. coliand purified by using conventional chromatography techniques.                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | ARPC5 is a 151 aminoacid subunit of the Arp2/3 complex. Thought to play a role in maintaining theintegrity of Arp2/3, ARPC5 is a substrate for MAPKAPK-2 which, throughphosphorylation of ARPC5, may participate in Arp2/3 regulatory functions andremodeling of the Actin cytoskeleton. Two isoforms of ARPC5 exist due toalternative splicing events. |
| <b>Application</b>      | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>             | Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.1M NaCl.                                                                                                                                                                                                                                                                    |
| <b>Molecular Weight</b> | 18.4 kDa (171aa),confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>    | 0.5 mg/ml(determined by Bradford assay)                                                                                                                                                                                                                                                                                                                 |
| <b>Sequences of</b>     | MGSSHHHHHHSSGLVPRGSHMSKNTVSSAR FRKVDVDEYD ENKFVDEEDG                                                                                                                                                                                                                                                                                                    |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>aminoacids</b>          | GDGQAGPDEG EVDSCLRQGNMTAALQAALK NPPINTKSQA VKDRAGSIVL<br>KVLISFKAND IEKAVQSLDK NGVDLLMKYI YKGFESPSDNSSAMLLQWHE<br>KALAAGGVGS IVRVLTARKT V                                                                                                                                                 |
| <b>Storage</b>             | Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                       |
| <b>OfficialSymbol</b>      | ARPC5                                                                                                                                                                                                                                                                                     |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>           | <a href="#">ARPC5 actin related protein 2/3complex, subunit 5, 16kDa [ Homo sapiens ]</a>                                                                                                                                                                                                 |
| <b>Synonyms</b>            | ARPC5; actinrelated protein 2/3 complex, subunit 5, 16kDa; ARC16;p16-Arc;<br>MGC88523; dJ127C7.3; actin-related protein 2/3 complex subunit<br>5;OTTHUMP00000033266; OTTHUMP00000033267; OTTHUMP00000038626;<br>arp2/3 complex 16kDa subunit; Arp2/3 protein complex subunit p16; p16-ARC |
| <b>Gene ID</b>             | <a href="#">10092</a>                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | <a href="#">NM_005717</a>                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | <a href="#">NP_005708</a>                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | <a href="#">604227</a>                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | O15511                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 1p25.3                                                                                                                                                                                                                                                                                    |

**Pathway** B Cell Receptor Signaling Pathway; CDC42 signaling events; ErbB1 downstream signaling; Fc gamma R-mediated phagocytosis; Pathogenic Escherichia coli infection; RAC1 signaling pathway; Regulation of Actin Cytoskeleton; Salmonella infection; Shigellosis; Bacterial invasion of epithelial cells

**Function** actin binding; protein binding; structural constituent of cytoskeleton

**PDB rendering based on 1k8k.**

