

# Recombinant Human ARP3 actin-related protein 3 homolog (yeast), His-tagged

Cat. No. ACTR3-612H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	ACTR3, 1-418aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-418 a.a.
<b>Description</b>	The specific function of ACTR3 has not yet been determined; however, this protein is known to be a major constituent of the ARP2/3 complex. This complex is located at the cell surface and is essential to cell shape and motility through lamellipodial actin assembly and protrusion. Three transcript variants encoding two different isoforms have been found for this gene. Recombinant human ACTR3 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
<b>Molecular Mass</b>	49.8 kDa (441aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMAGRLPA CVVDCGTGYT KLG YAGNTEP QFIIPSCIAI KESAKVGDQA QRRVMKGVDD LDFFIGDEAI EKPTYATKWP IRHGIVEDWD LMERFMEQVI FKYLRAEPED HYFLLTEPPL NTPENREYTA EIMFESFNVP GLYIAVQAVL ALAASWTSRQ VGERTLTGTV IDSGDGVTHV IPVAEGYVIG SCIKHIPIAG RDITYFIQQL LRDREVGIPP EQSLETAKAV

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KERYSYVCPD LVKEFNKYDT DGSKWIKQYT GINAISKKEF SIDVGYERFL  
 GPEIFFHPEF ANPDFTQPIS EVVDEVIQNC PIDVRRPLYK NIVLSGGSTM  
 FRDFGRRLQR DLKRTVDARL KLSEELSGGR LKPKPIDVQV ITHHMQRVAV  
 WFGGSMLAST PEFYQVCHTK KDYEEIGPSI CRHNPVFGVM S

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [ACTR3 ARP3 actin-related protein 3 homolog \(yeast\) \[ Homo sapiens \]](#)

**Official Symbol** ACTR3

**Synonyms** ACTR3; ARP3 actin-related protein 3 homolog (yeast); ARP3 (actin related protein 3, yeast) homolog; actin-related protein 3; ARP3; actin-like protein 3;

**Gene ID** [10096](#)

**mRNA Refseq** [NM\\_005721](#)

**Protein Refseq** [NP\\_005712](#)

**MIM** [604222](#)

**UniProt ID** [P61158](#)

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<b>Chromosome Location</b>	2q14.1
<b>Pathway</b>	B Cell Receptor Signaling Pathway, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; RAC1 signaling pathway, organism-specific biosystem;
<b>Function</b>	ATP binding; actin binding; nucleotide binding; protein binding;

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