

Recombinant Human ARC, His-tagged

Cat. No. ARC-7572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ARC protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-396aa
Antigen Description	Activity-regulated cytoskeleton-associated protein, also known as ARC, is required for consolidation of synaptic plasticity as well as formation of long-term memory. This protein regulates endocytosis of AMPA receptors in response to synaptic activity. This protein required for homeostatic synaptic scaling of AMPA receptors. This protein plays a role in the regulation of cell morphology and cytoskeletal organization.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	47.4 kDa (416aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MELDHRTSGG LHAYPGPRGG QVAKPNVILQ IGKCRAEMLE HVRRTTHRLL AEVSKQVERE LKGLHRSVGK LESNLDGYVP TSDSQRWKKS IKACLRCRCQE TIANLERWVK REMHVVREVF YRLERWADRL ESTGGKYPVG SESARHTVSV GVGGPESYCH EADGYDYTVS PYAITPPPA GELPGQEPAE AQQYQPWVPG EDGQPSPGVD TQIFEDPREF LSHLEEYLRQ

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VGGSEEWLS QIQNHMNGPA KKWWFEKQGS VKNWVEFKKE FLQYSEGTLS
 REAIQRELDL PQKQGEPLDQ FLWRKRDLYQ TLYVDADEEE IIQYVVGTLQ
 PKLKRFLRHP LPKTLEQLIQ RGMEVQDDLE QAAEPAGPHL PVEDEAETLT
 PAPNSESVAS DRTQPE

Purity >90% as determined by SDS - PAGE

Applications 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 0.5 mg/ml

GENE INFORMATION

Gene Name [ARC activity-regulated cytoskeleton-associated protein \[Homo sapiens \]](#)

Official Symbol ARC

Synonyms ARC; activity-regulated cytoskeleton-associated protein; Arg3.1; KIAA0278; ARC/ARG3.1; activity-regulated gene 3.1 protein homolog;

Gene ID [23237](#)

mRNA Refseq [NM_015193](#)

Protein Refseq [NP_056008](#)

MIM [612461](#)

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UniProt ID	Q7LC44
Chromosome Location	8q24.3
Pathway	Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem;

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