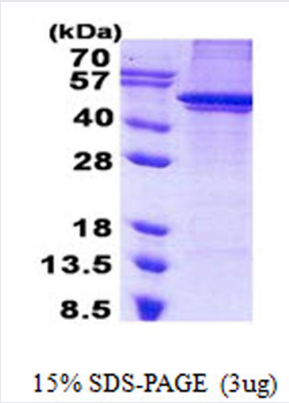
ARC Recombinant Protein

PRODUCT OVERVIEW

Product Name	ARC, Recombinant Protein
Full Product Name	ARC, 1-396aa, Human, His tag, E Coli
Product Gene Name	ARC recombinant protein
Product Synonym Names	Activity-regulated cytoskeleton-associated protein; Arg3.1; KIAA0278
Sequence	MGSSHHHHHH SSGLVPRGSH MELDHRTSGG LHAYPGPRGG QVAKPNVILQ IGKCRAEMLE HVRRTHRHLL AEVSKQVERE LKGLHRSVGK LESNLDGYVP TSDSQRWKKS IKACLCRCQE TIANLERWVK REMHVWREVF YRLERWADRL ESTGGKYPVG SESARHTVSV GVGGPESYCH EADGYDYTVS PYAITPPPAA GELPGQEPAE AQQYQPWVPG EDGQPSPGVD TQIFEDPREF LSHLEEYLRQ VGGSEEYWLS QIQNHMNGPA KKWWEFKQGS VKNWVEFKKE FLQYSEGTLS REAIQRELDL PQKQGEPLDQ FLWRKRDLYQ TLYVDADEEE IIQYVVGTLQ PKLKRFLRHP LPKTLEQLIQ RGMEVQDDLE QAAEPAGPHL PVEDEAETLT PAPNSESVAS DRTQPE
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	47.4 kDa (416aa) confirmed by MALDI-TOF
OMIM	AF193421 mRNA
3D Structure	ModBase 3D Structure for Q7LC44
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for ARC recombinant protein	Neuroscience
Applications Tested/Suitable for ARC recombinant protein	SDS-PAGE
Related Product Information for ARC recombinant protein	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. Recombinant human ARC protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for ARC recombinant protein	Nagase T., et al. (1996) DNA Res. 3:321-329
Other Notes	Small volumes of ARC recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ARC purchase	MBS204998 is a recombinant protein targeting ARC. Also known as ARC, 1-396aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of ARC recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARC. It may not necessarily be applicable to this product.

NCBI GI #	8567330
NCBI GeneID	23237
NCBI Accession #	NP_056008
UniProt Primary Accession #	Q7LC44
UniProt Secondary Accession #	Q9UJW6; Q9Y469
UniProt Related Accession #	Q7LC44
GenBank Nucleotide #	NM_015193.4
NCBI Official Full Name	activity-regulated cytoskeleton-associated protein
NCBI Official Synonym Full Names	activity regulated cytoskeleton associated protein
NCBI Official Symbol	ARC
NCBI Official Synonym Symbols	Arg3.1
UniProt Protein Name	Activity-regulated cytoskeleton-associated protein
UniProt Synonym Protein Names	ARC/ARG3.1; Activity-regulated gene 3.1 protein homolog; Arg3.1
Protein Family	AAA ATPase forming ring-shaped complexes
UniProt Gene Name	ARC
UniProt Synonym Gene Names	Arg3.1
NCBI Protein Information	activity-regulated cytoskeleton-associated protein
UniProt Comments for ARC	Required for consolidation of synaptic plasticity as well as formation of long-term memory. Regulates endocytosis of AMPA receptors in response to synaptic activity. Required for homeostatic synaptic scaling of AMPA receptors (). Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the stress fiber dynamics and cell migration.
Research Articles on ARC	**1.** Study identified several rare mutations that reduced ARC expression in schizophrenia patients. Furthermore, DNA methylation of ARC in schizophrenia patients may be associated with a downregulation of ARC mRNA expression. These findings suggest that multiple rare ARC variants and DNA methylation of ARC might contribute to the pathogenesis of schizophrenia.

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