

## Recombinant Mouse Arc Protein, His-tagged

**Cat. No.** Arc-240M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Arc Protein (Arg47-Asn244) with N-His tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Arg47-Asn244
<b>Description</b>	Predicted to enable mRNA binding activity. Involved in long-term memory; regulation of postsynaptic neurotransmitter receptor internalization; and regulation of synaptic plasticity. Acts upstream of or within anterior/posterior pattern specification and endoderm development. Located in several cellular components, including dendritic spine; glutamatergic synapse; and neuronal ribonucleoprotein granule. Is expressed in several structures, including central nervous system; extraembryonic component; metanephros; pancreas mesenchyme; and retina. Orthologous to human ARC (activity regulated cytoskeleton associated protein).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 24.1 kDa
<b>Purity</b>	> 95%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

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<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	Arc activity regulated cytoskeletal-associated protein [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Arc
<b>Synonyms</b>	ARC; activity regulated cytoskeletal-associated protein; activity-regulated cytoskeleton-associated protein; mArc; ARC/ARG3.1; activity-regulated gene 3.1 protein homolog; Arc3.1; C86064; arg3.1
<b>Gene ID</b>	11838
<b>mRNA Refseq</b>	NM_018790
<b>Protein Refseq</b>	NP_061260
<b>UniProt ID</b>	Q9WV31

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