

Recombinant Mouse Arc Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Arc Protein (Arg47-Asn244) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Arg47-Asn244
Description	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).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 24.1 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	Arc activity regulated cytoskeletal-associated protein [Mus musculus (house mouse)]
Official Symbol	Arc
Synonyms	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
Gene ID	11838
mRNA Refseq	NM_018790
Protein Refseq	NP_061260
UniProt ID	Q9WV31