

Recombinant Human ARC Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ARC-596H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

ARC MS Standard C13 and N15-labeled recombinant protein (NP_056008) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

Molecular Mass

45.3 kDa

AA Sequence

MELDHRTSGGLHAYPGPRGGQVAKPNVILQIGKCRAEMLEHVRRTHRHLLAEVSKQ
 VERELKGLHRVSGKLESNLDGYVPTSDSQRWKKSIKACLRCQETIANLERWVKRE
 MHVWREVFYRLERWADRLESTGGKYPVGSESARHTVSVGVGGPESYCHADGYD
 YTVSPYAITPPPAAGELPGQEPAEAQQYQPWVPGEDGQPSPGVDTQIFEDPREFLS
 HLEEYLRQVGGSEYWLSQIQNHMNGPAKKWWEFKQGSVKNWVEFKKEFLQYSE
 GTLSREAIQRELDLPQKQGEPLDQFLWRKRDLYQTLYVDADEEEIIQYVVGTLQPKL
 KRFLRHPLPKTLEQLIQRGMEVQDDLEQAAEPAGPHLPVEDEAETLTPAPNSESVAS
 DRTQPETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|-----------------------|--|
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Stability | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| Storage | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. |
| Concentration | 50 µg/mL as determined by BCA |
| Storage Buffer | 100 mM glycine, 25 mM Tris-HCl, pH 7.3. |

GENE INFORMATION

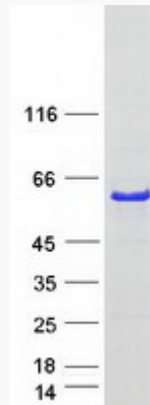
| | |
|------------------------|---|
| Gene Name | ARC activity-regulated cytoskeleton-associated protein [Homo sapiens (human)] |
| Official Symbol | ARC |
| Synonyms | ARC; activity-regulated cytoskeleton-associated protein; Arg3.1; KIAA0278; ARC/ARG3.1; activity-regulated gene 3.1 protein homolog; |
| Gene ID | 23237 |
| mRNA Refseq | NM_015193 |
| Protein Refseq | NP_056008 |
| MIM | 612461 |
| UniProt ID | Q7LC44 |

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SDS-PAGE



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