

Recombinant human ARC protein

Catalog Number: ATGP2016

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-396aa

UniProt No.

Q7LC44

NCBI Accession No.

NP_056008

Alternative Names

Activity-regulated cytoskeleton-associated protein, Arg3.1, KIAA0278

PRODUCT SPECIFICATION

Molecular Weight

47.4 kDa (416aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human ARC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

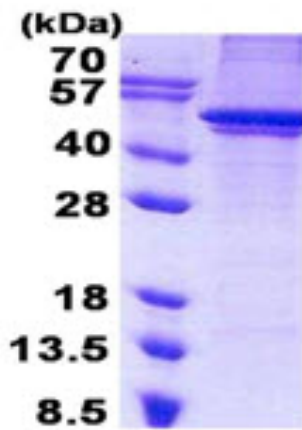
MGSSHHHHHH SSSLVPRGSH MELDHRTSGG LHAYPGPRGG QVAKPNVILQ IGKCRAEMLE HVRRTHRHLL AEVSKQVERE
LKGLHRVSGK LESNLDGYVP TSDSQRWKKS IKACLRCRCQE TIANLERWVK REMHVVREVF YRLERWADRL ESTGGKYPVG
SESARHTVSV GVGGPESYCH EADGYDYTVS PYAITPPPAE GELPGQPAE AQQYQPWVPG EDGQPSPGVD TQIFEDPREF
LSHLEEYLRQ VGGSEEWLS QIQNHMNGPA KKWWVEFKQS VKNWVEFKKE FLQYSEGTLS REAIQRELDL PQKQGEPLDQ
FLWRKRDLYQ TLYVDADEEE IIQYVVGTLQ PKLKRFLRHP LPKTLEQLIQ RGMEVQDDLE QAAEPAGPHL PVEDEAETLT
PAPNSESVAS DRTQPE

General References

Nagase T., et al. (1996) DNA Res. 3:321-329

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)