

Recombinant Human Activity-Regulated Cytoskeleton-Associated Protein Datasheet

Catalog Number: PR27220 Product Type: Recombinant Protein

Source: E. Coli

Amino Acid 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 LPKTLEQLI

RGMEVQDDLE QAAEPAGPHL PVEDEAETLT PAPNSESVAS DRTQPE.

Description/Molecular Activity-regulated cytoskeleton-associated protein (ARC) takes part in the regulation of cell morphology and cytoskeletal organization and is required for consolidation of synaptic plasticity as well as formation

of long-term memory. ARC regulates endocytosis of AMPA receptors in response to synaptic activity and is also required for homeostatic synaptic scaling of AMPA receptors. ARC is required in the stress

fiber dynamics and cell migration.

ARC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing

416 amino acids (1-396 a.a.) and having a molecular mass of 47.4kDa. ARC is fused to a 20 amino acid

His-tag at N-terminus & purified by proprietary chromatographic techniques.

Purity: Greater than 90.0% as determined by:

(a) Analysis by SDS-PAGE.

Format: ARC protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol

and 1mM DTT.

Storage: Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS, ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RSKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

03/08v1