
Product Data Sheet

Product Name: ARC Human
 Cat. No.: GP22754
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Arg3.1; KIAA0278; Activity-regulated cytoskeleton-associated protein; Activity-regulated gene 3.1 protein homolog; ARC.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MELDHRTSGG LHAYPGPRGG QVAKPNVILQ IGKCRAEMLE HVRRTHRHLL AEVSKQVERE LKGLHRSVGK LESNLDGYVP TSDSQRWKKS IKACLRCRCQE TIANLERWVK REMHVVREVF YRLERWADRL ESTGGKYPVG SESARHTVSV GVGGPESYCH EADGYDYTVS PYAITPPAA GELPGQEPAE AQQYQPWVPG EDGQPSGVD TQIFEDPREF LSHLEEYLRQ VGGSEEWLS QIQNHMNGPA KKWWEFKQGS VKNWVEFKKE FLQYSEGTLN REAIQRELDL PQKQGEPLDQ FLWRKRDLYQ TLYVDADEEE IIQYVVGTLQ PKLKRFLRHP LPKTLEQLIQ RGMEVQDDLE QAAEPAGPHL PVEDEAETLT PAPSSESVAS DRTQPE.		
Formulation	ARC protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

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.

Stability

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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