

Recombinant human ARC/NOL3 protein

Catalog Number: ATGP1671

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-208aa

UniProt No.

O60936

NCBI Accession No.

NP_001171987

Alternative Names

Nucleolar protein 3, ARC, MYP, NOP, NOP30

PRODUCT SPECIFICATION

Molecular Weight

25 kDa (231aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT, 1mM EDTA

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

Nucleolar protein 3 (apoptosis repressor with CARD domain), also known as NOL3, is predominantly expressed in muscle and is present in the nucleoplasm and concentrated in nucleoli. NOL3 mRNA and protein levels are induced by neuronal activity, which is necessary to stimulate neuroplasticity, indicating a potential role for NOL3 in activity-dependent changes in dendrite function. NOL3 has been shown to localize to the cytoskeleton of neuronal cells and appears to colocalize with F-Actin, although it may associate with an actin-associated protein rather than directly with F-Actin. Recombinant human NOL3 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MGNAQER PSETIDRERK RLVETLQADS GLLLDALLAR GVLTGPEYEA
LDALPDAERR VRRLLLLLVQG KGEAACQELL RCAQRTAGAP DPAWDWQHVG PGYRDRSYDP PCPGHWTPEA
PGSGTTCPLG PRASDPDEAG GPEGSEAVQS GTPEEPEPEL EAEASKEAEP EPEPEPELEP EAEAEPEPEL EPEPDPEPEP
DFEERDESED S

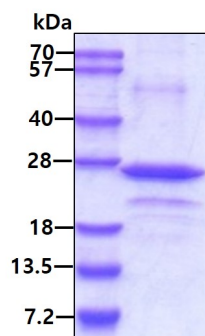
General References

Lau L F., et al. (1991) Elsevier Science Pub. 257-293

Greenberg M E., et al. (1986) Science. 234: 80-83.

DATA

SDS-PAGE



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