



— A helping hand for your research

Product Description

Product Name: Arf1 Protein $\Delta 17$ mutant

Synonyms: ADP-ribosylation factor 1

Catalogue Number: 10122

Source: Human, recombinant, His₆-tag

Expression Host: E. coli

Molecular Weight: 21 kDa

Purity: >99% by SDS-PAGE

Introduction: Arf1 is a member of the ARF super-family. ARF genes encode small GTPases that increase the ADP-ribosyltransferase activity of cholera toxin and are critical for vesicular trafficking as activators of phospholipase D. Arf1 protein is localized to the Golgi apparatus and has a central role in intra-Golgi transport.

Amino Acid Sequence (1-181, $\Delta 17$)

MGNIFANLFKGLFGKK-MRILMVGLDAAGKTTILYKLK
LGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIRP
LWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAED
ELRDAVLLVFANKQDLPNAMNAEITDKLGLHSLRHRN
WYIQATCATSGDGLYEGLDWLSNQLRNQK

Properties

Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.

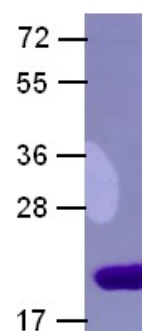
Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

Adding of 10 mM β -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β -D-maltoside (DoDM) or polyethylene detergents (e.g. C₁₂E₁₀) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Arf1 Protein $\Delta 17$ mutant was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

1. Amor, J. C. et al., Nature 372: 704-708, 1994.
2. Bobak, D. A. et al., Proc. Nat. Acad. Sci. 86: 6101-6105, 1989.
3. Hirai, M. et al., Genomics 34: 263-265, 1996.
4. Kumari, S. et al., Cell Biol. 10: 30-41, 2008.
5. Lee, C.-M. et al., J. Biol. Chem. 267: 9028-9034, 1992.
6. Mossessova, E. et al., Cell 92: 415-423, 1998.
7. Peng, Z. G. et al., Biofactors 2: 45-49, 1989.
8. Presley, J. F. et al., Nature 417: 187-193, 2002.
9. Renault, L. et al., Nature 426: 525-530, 2003.

For research use only. Not for diagnostic or therapeutic applications.

24 Whitewoods Lane, Malvern, PA 19355
E-mail: sale@neweastbio.com

Tel: (610) 945-2007 Fax: (610) 945-2008
Web: www.neweastbio.com