Product Description

Pioneering GTPase and Oncogene Product Development since 2010

Arf1(Δ17 Q71L) Mutant

Synonyms: ADP-ribosylation factor 1

Catalogue Number: 10123

Background: 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.

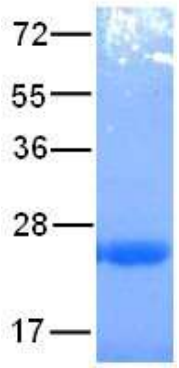
Amino Acid Sequence: (1-181, Δ17, Q71L)

MGNIFANLFKGLFGKKMRILMVGLDAAGKTTIL
YKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVG
GLDKIRPLWRHYFQNTQGLIFVVDSNDRERVNE
AREELMRMLAEDELRDAVLLVFANKQDLPNAM
NAAEITDKLGLHSLRHRNWYIQATCATSGDGL
YEGLDWLSNQLRNQK

Source: Human recombinant, His6-tag
Expression Host: E. coli
Molecular Weight: 21 kDa
Purity: > 99% by SDS-PAGE
Constituents: 20 mM Tris-HCl, pH 8.0, 150 mM NaCl.
Physical Appearance: 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., $C_{12}E_{10}$) also help to stabilize the protein. Avoid repeated freezing and thawing



The purity of His-tagged Arf1(Δ17 Q71L) 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.

NewEast Biosciences
1150 First Avenue, Suite 501
King of Prussia, PA 19406

Support: 610-945-2007
info@neweastbio.com
Web: www.neweastbio.com