

Arf6(Δ 12 Q67L) Mutant

Catalog Number: 10125

Synonyms: ADP-ribosylation factor 6

Background: Arf6 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. Arf6 regulates membrane trafficking and the actin cytoskeleton at the plasma membrane and functions as a regulatory molecule of phagocytosis.

Amino Acid Sequence: (1-175, Δ 12, Q67L)

MGKVLKIFGNEMRILMLGLDAAGKTTILYKLL
LGQSVTTIPTVGFNVETVYKVKFNVDVGG
DKIRPLWRHYTGTQGLIFVDCADRDRIDEAQ
ELHRIINDREMRDAILIFANKQDLPDAMKPHEIQ
EKLGLTRIRDNRWYVQPSCATSGDGLYEGLTW
LTSNYKS

Source: Human, recombinant, His6-tag

Expression Host: E. coli

Molecular Weight: 20 kDa

Purity: > 95% by SDS-PAGE

Constituents: 20 mM Tris-HCl, pH 8.0, 150 mM NaCl.

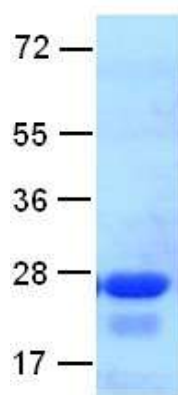
Physical Appearance: White or clear

Concentration: 1mg/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 Arf6 Δ 12 Q67L mutant was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

1. Cavenagh, M. M. et al., J. Biol. Chem. 271: 21767-21774, 1996.
2. D'Souza-Schorey, C. et al., Science 267: 1175-1178, 1995.
3. Falace, A. et al., Am. J. Hum. Genet. 87: 365-370, 2010.
4. Hernandez-Deviez, D. J. et al., Nature Neurosci. 5: 623-624, 2002.
5. O'Neal, C. J. et al., Science 309: 1093-1096, 2005.

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