

## ARF6 PROTEIN

### Arf6 Protein

**Cat. #:** 10124

**Product Name:** Arf6 Protein

**Synonyms:** ADP-ribosylation factor 6

**Source:** Human recombinant, His6-tag

**Expression Host Species:** E. coli

**Molecular Weight:** 17 kDa

**Purity:** >95% by SDS-PAGE

**Introduction:** 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** (13-175)

**EMRILMLGLDAAGKTTILYKLLKLGQSVTTIPTVGFNVETVITYKNVKFNVDVGGQDKIRPLWRHYT  
GTQGLIFVDCADRDRIDEARQELHRIINDREMRDAILIFANKQDLPDAMKPHEIQEKLGLTRIRD  
RNWYVQPSCATSGDGLYEGLTWLTSNYKS**

### 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:

Centrifuge the vial before open the cap and reconstitute in water. Adding of 10 mM  $\beta$ -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl  $\beta$ -D-maltoside (DoDM) or polyethylene detergents (e.g. C12E10) also help to stabilize the protein. Avoid repeated freezing and thawing after reconstitution. The purity of His-tagged Arf6 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.