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## Product Description

**Product Name:** Arf6 Protein  $\Delta 12$  Q67L mutant

**Synonyms:** ADP-ribosylation factor 6

**Catalogue Number:** 10125

**Source:** Human, recombinant, His<sub>6</sub>-tag

**Expression Host:** E. coli

**Molecular Weight:** 20 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 (1-175, $\Delta 12$ , Q67L)

MGKVLISKIFGN-EMRILMLGLDAAGKTTILYKLLKLGQS  
VTTIPTVGFNVETVITYKNVKFNVDVGGLDKIRPLWRH  
YYTGTQGLIFVVDCADRDRIDEARQELHRIINDREMRD  
AIIILIFANKQDLPDAMKPHEIQEKLGLTRIRDRNWYVQ  
PSCATSGDGLYEGLTWLTSNYKS

### Properties

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

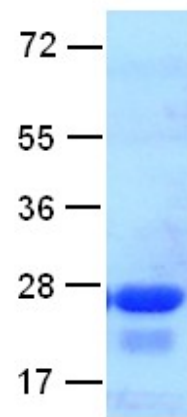
**Physical Appearance (form):** White or clear

**Concentration:** 1mg/mL

**Storage:** -80°C

### Preparation Instructions

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. C<sub>12</sub>E<sub>10</sub>) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Arf6  $\Delta 12$  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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