

Product Description

Product Name: Rab7 Protein Q67L mutant
Synonyms: Member RAS oncogene family, Rab7a, MGC102153
Catalogue Number: 10135
Source: Human, recombinant full length, His₆-tag
Expression Host: E. coli
Molecular Weight: 23 kDa
Purity: >99% by SDS-PAGE

Introduction: Members of the Rab family of Ras-related GTP-binding proteins are important regulators of vesicular transport and are located in specific intracellular compartments. Rab7 has been localized to late endosomes and shown to be important in the late endocytic pathway. In addition, it has been shown to have a fundamental role in the cellular vacuolation induced by the cytotoxin VacA of *Helicobacter pylori*.

Amino Acid Sequence (1-207, Q67L)

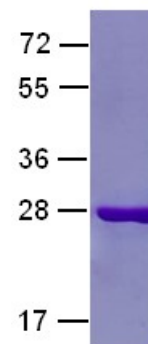
MTSRKKVLLKVIILGDSGVGKTSLMNQYVNNKFSNQYK
ATIGADFLTKEVMVDDRLVTMQIWDTAGL~~E~~RFQSLGVA
FYRGADCCVLVFDVTPNTFKTLDSWRDEFLLIQASPRD
PENFPFVVLGNKIDLENRQVATKRAQAWCYSKNNIPYF
ETSAKEAINVEQAFQTIARNALKQETEEVELYNEFPEPI
KLDKNDRAKASAECS

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 Rab7 Q67L was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

1. Edinger, A. L. et al., Dev. Cell 5: 571-582, 2003.
2. Houlden, H. et al., Ann. Neurol. 56: 586-590, 2004.
3. Meggouh, F. et al., Neurology 67: 1476-1478, 2006.
4. Rak, A. et al., Cell 117: 749-760, 2004.
5. Verhoeven, K. et al., Am. J. Hum. Genet. 72: 722-727, 2003.

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