

Sar1a

Catalog Number: 10114

Synonyms: SAR1 homolog A, SAR1, Sara, SARA1, Masra2

Background: Small GTPases are a super-family of cellular signaling regulators. Sar1 is a member of these small GTPases. Sar1 functions as a molecular switch to control protein-protein and protein-lipid interactions that direct vesicle budding from the ER.

Amino Acid Sequence: (1-198)

MSFIFEWIYNGFSSVLQFLGLYKKSGLVFLGLDN
AGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGM
TFTFDLGGHEQARRVWKNYLPAINGIVFLVDCA
DHSRLVESKVELNALMTDETISNVPILILGNKIDRT
DAISEEKLREIFGLYGQTTGKGNVTLKELNARPME
VFMCSVLKRQGYGEGFRWLSQYID

Source: Human, recombinant full length, His6-tag

Expression Host: E. coli

Molecular Weight: 22 kDa

Purity: >99% by SDS-PAGE

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

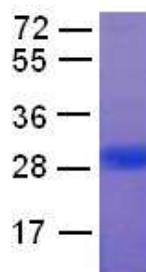
Physical Appearance: White or clear

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. C₁₂E₁₀) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Sar1a was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

1. He, H. et al., Gene Expr. 10: 231-242, 2002.
2. Jones, B. et al., Nature Genet. 34: 29-31, 2003.3.
South, S. T. et al., J. Cell Biol. 149: 1345-1359, 2000.

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