

# **Product Description**

A helping hand for your research

Product Name: Sar1a Protein

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

Masra2

Catalogue Number: 10114

Source: Human, recombinant full length, His6-tag

Expression Host: E. coli Molecular Weight: 22 kDa Purity: >99% by SDS-PAGE

**Introduction:** 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)

MSFIFEWIYNGFSSVLQFLGLYKKSGKLVFLGLDNAGK TTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFDL GGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVE LNALMTDETISNVPILILGNKIDRTDAISEEKLREIFG LYGQTTGKGNVTLKELNARPMEVFMCSVLKRQGYGEGF RWLSQYID

### **Properties**

Physical Appearance (form): Dissolved in 20mM

Tris-HCl, pH8.0, 150mM NaCl.

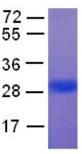
Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

## **Preparation Instructions**

Adding of 10 mM  $\beta$ -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.  $C_{12}E_{10}$ ) 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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