

# Recombinant human SNTN protein

Catalog Number: ATGP1043

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-147aa

### UniProt No.

A6NMZ2

### NCBI Accession No.

NP\_001074006

### Alternative Names

Sentan, S100A1L, S100AL

## PRODUCT SPECIFICATION

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### Molecular Weight

18.6 kDa (167aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.15M NaCl, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

SNTN, also known as sentan, belongs to the S-100 family. SNTN is shown to localize exclusively to the bridging structure between the cell membrane and peripheral singlet microtubules, which specifically exists in the narrowed distal portion of cilia. Exogenously expressed sentan showed affinity for the membrane protrusions, and a protein-lipid binding assay revealed that sentan bound to phosphatidylserine. These findings suggest that sentan is the first molecular component of the ciliary tip to bridge the cell membrane and peripheral singlet microtubules, making the distal portion of the cilia narrow and stiff to allow for better airway clearance or ovum

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transport. Recombinant human SNTN protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

### Amino acid Sequence

MGSSHHHHHH SSDLVPRGSH MGGCMHSTQD KSLHLEGDPN PSAAPTSTCA PRKMPKRISI SKQLASVKAL RKCSDLEKAI  
ATTALIFRNS SDSDGKLEKA IAKDLLQTQF RNFAEGQETK PKYREILSEL DEHTENKLDL EDFMILLLSI TVMSDLLQNI  
RNVKIMK

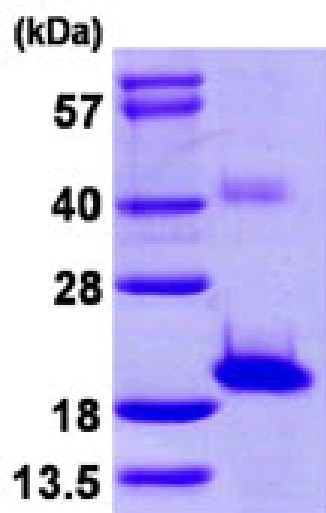
### General References

Muzny D.M., et al. (2006) *Nature*. 440:1194-1198

Kubo A., et al. (2008) *Mol. Biol. Cell* 19:5338-5346

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 $\mu$ g)