

Recombinant human SNTN protein

Catalog Number: ATGP1043

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-147aa

UniProt No.

A6NMZ2

NCBI Accession No.

NP_001074006

Alternative Names

Sentan, S100A1L, S100AL

PRODUCT SPECIFICATION

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

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

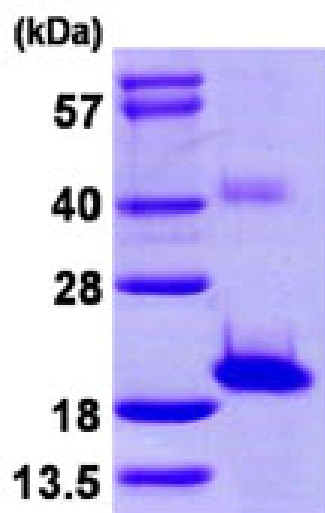
MGSSHHHHHH SSGLVPRGSH MGGCMHSTQD KSLHLEGDPN PSAAPTSTCA PRKMPKRISI SKQLASVKAL RKCS DLEKAI
ATTALIFRNS SDSDGKLEKA IAKDLLQTQF RNFAEGQETK PKYREILSEL DEHTENK LDF EDFMILLLSI TVMSDLLQNI
RNVKIMK

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)