

AR09983PU-L**Human Sentan / SNTN (1-147, His-tag) - Purified****Alternate names:**

S100 calcium-binding protein A1-like, S100-A1-like, S100A1L

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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 transport.

Uniprot ID:[A6NMZ2](#)**NCBI:**[NP_001074006](#)**GenelD:**[132203](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90%**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.15M NaCl, 1mM DTT**Description:**

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

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGGCMHSTQD KSLHLEGDPN PSAAPTSTCA PRKMPKRISI
SKQLASVKAL RKCSBLEKAI ATTALIFRNS SDSDGKLEKA IAKDLLQTQF RNFAEGQETK
PKYREILSEL DEHTENKLDL EDFMILLLSI TVMSDLLQNI RNVKIMK

Molecular weight: 18.6 kDa (167aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

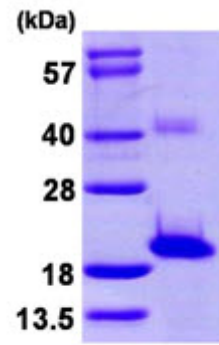
General Readings:

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

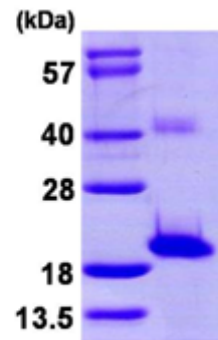
Kubo A., et al. (2008) Mol. Biol. Cell 19:5338-5346.

Pictures:

Recombinant human SNTN, 1-147aa, His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)