

Product information

SNTN, 1-147aa

Human, His-tagged, Recombinant, *E.coli*

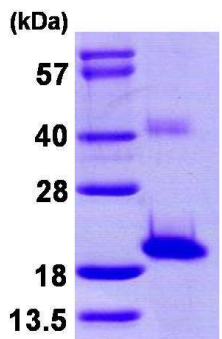
Cat. No. IBATGP1043

Full name: Sentan

NCBI Accession No.: NP_001074006

Synonyms: S100A1L, S100AL

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

<p>Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol, 0.15M NaCl, 1mM DTT</p> <p>Molecular Weight: 18.6 kDa (167aa), confirmed by MALDI-TOF</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	 <p>(kDa)</p> <p>57</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p><u>MGSSHHHHH</u> <u>SSGLVPRGSH</u> MGGCMHSTQD KSLHLEGDPN PSAAPTSTCA PRKMPKRISI SKQLASVKAL RKCS DLEKAI ATTALIFRNS SDSDGKLEKA IAKDLLQTQF RNFAEQQETK PKYREILSEL DEHTENKLD F EDFMILLLSI TVMSDLLQNI RNVKIMK</p>	

General references:

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

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.