

Recombinant Human Sentan, Cilia Apical Structure Protein, His-tagged

Cat. No. SNTN-3521H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant human SNTN protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-147aa). |
| Species | Human |
| Source | E.coli |
| 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. |
| Form | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 50% glycerol, 0.15M NaCl, 1mM DTT |
| Molecular Weight | 18.6 kDa (167aa), confirmed by MALDI-TOF |
| Purity | >90% by SDS - PAGE |
| Concentration | 0.5 mg/ml (determined by Bradfordassay) |

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Sequences of amino acids MGSSHHHHHH SGLVPRGSH MGGCMHSTQD KSLHLEGDPN PSAAPTSTCA
 PRKMPKRISI SKQLASVKAL RKCSBLEKAI ATTALIFRNS SDSDGKLEKA
 IAKDLLQTQF RNFAEGQETK PKYREILSEL DEHTENKLDL EDFMILLLSI
 TVMSDLLQNI RNVKIMK

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.

GENE INFORMATION

Gene Name [SNTN sentan, cilia apical structure protein \[Homo sapiens \]](#)

Synonyms SNTN; S100AL; S100A1L; FLJ44379; sentan; sentan, cilia apical structure protein; OTTHUMP00000213412; OTTHUMP00000213414; S100A-like protein

Gene ID [132203](#)

mRNA Refseq [NM_001080537](#)

Protein Refseq [NP_001074006](#)

UniProt ID [A6NMZ2](#)

Chromosome Location 3p14.2

Function calcium ion binding

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