

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

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

SPECIFICATION

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 Bradford assay)

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Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGGCMHSTQD KSLHLEGDPN PSAAPTSTCA PRKMPPKRISI SKQLASVKAL RKCSBLEKAI ATTALIFRNS SDSDGKLEKA IAKDLLQTQF RNFAEGQETK PKYREILSEL DEHTENKLDF EDFMILLLSI TVMSDLLQNI RNVKIMK
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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.
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GENE INFORMATION

Gene Name	SNTN sentan, cilia apical structure protein [Homo sapiens]
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Synonyms	SNTN; S100AL; S100A1L; FLJ44379; sentan; sentan, cilia apical structure protein; OTTHUMP00000213412; OTTHUMP00000213414; S100A-like protein
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Gene ID	132203
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mRNA Refseq	NM_001080537
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Protein Refseq	NP_001074006
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UniProt ID	A6NMZ2
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Chromosome Location	3p14.2
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Function	calcium ion binding
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