

## Recombinant Human Stratifin

**Cat. No.** SFN-5121H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human SFN was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	14-3-3 sigma, also known as Stratifin (SFN), belongs to the 14-3-3 family. The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. 14-3-3 sigma was identified as an epithelial cell marker and appeared to function as a tumor suppressor whose expression can be down regulated via methylation. Loss of 14-3-3 sigma expression results in a defective G2/M phase checkpoint and appears to contribute to both epithelial and non-epithelial tumorigenesis.
<b>Concentration</b>	1 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 50mM NaCl and 10% glycerol.
<b>Purity</b>	> 95% by SDS - PAGE
<b>Sequence</b>	1-248 amino acids: MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE

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RNLLSVAYKN VVGGQRAAWR VLSSIEQKSN EEGSEEKGPE VREYREKVVET  
 ELQGVCDTVL GLLDSHLIKE AGDAESRVFY LKMKGDYYRY LAEVATGDDK  
 KRIIDSARSA YQEAMDISKK EMPPTNPIRL GLALNFSVFH YEIANSPEEA  
 ISLAKTTFDE AMADLHTLSE DSYKD

**Molecular Mass** 27.7 kDa (248aa), confirmed by MALDI-TOF.

**Applications** SDS-PAGE

**Storage** Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [SFN stratifin \[ Homo sapiens \]](#)

**Official Symbol** SFN

**Synonyms** SFN; stratifin; YWHAS; 14-3-3 protein sigma; 14-3-3 sigma; OTTHUMP00000004242; epithelial cell marker protein 1; HME1

**Gene ID** [2810](#)

**mRNA Refseq** [NM\\_006142](#)

**Protein Refseq** [NP\\_006133](#)

**MIM** [601290](#)

**UniProt ID** P31947

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**Chromosome  
Location**

1p36.11

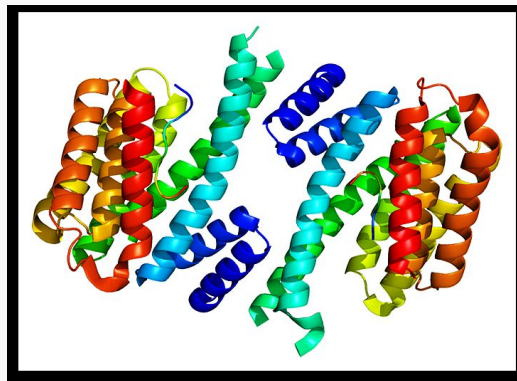
**Pathway**

Aldosterone-regulated sodium reabsorption; Alpha6-Beta4 Integrin Signaling Pathway; Calcium Regulation in the Cardiac Cell; Cell cycle; Class I PI3K signaling events mediated by Akt; Direct p53 effectors; ErbB1 downstream signaling; FoxO family signaling; Glucocorticoid receptor regulatory network; Insulin-mediated glucose transport; LKB1 signaling events; Myometrial Relaxation and Contraction Pathways; Regulation of Wnt-mediated beta catenin signaling and target gene transcription; Role of Calcineurin-dependent NFAT signaling in lymphocytes; Trk receptor signaling mediated by PI3K and PLC-gamma; a6b1 and a6b4 Integrin signaling; mTOR signaling pathway

**Function**

protein binding; protein domain specific binding; protein kinase C inhibitor activity

**PDBrendering based  
on 1ywt.**



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