

Recombinant Human Stratifin

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

SPECIFICATION

Product Overview	Recombinant human SFN was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	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.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 50mM NaCl and 10% glycerol.
Purity	> 95% by SDS - PAGE
Sequence	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.	