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

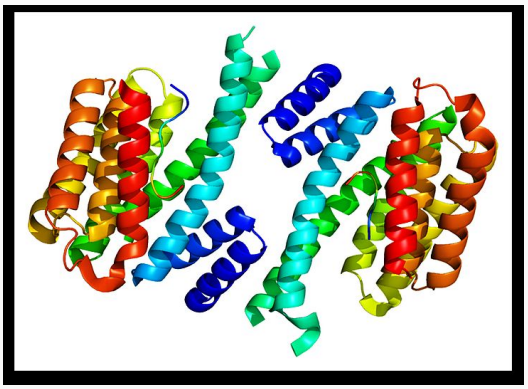
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	RNLLSVAYKN VVGGQRAAWR VLSSIEQKSN EEGSEEKGPE VREYREKVET 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA