Datasheet for ABIN1097592

14-3-3 sigma/SFN Protein (AA 1-248)

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Overview

Quantity:	50 µg
Target:	14-3-3 sigma/SFN (SFN)
Protein Characteristics:	AA 1-248
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Stratifin/SFN
Sequence:	MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR VLSSIEQKSN EEGSEEKGPE VREYREKVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNPIRL GLALNFSVFH YEIANSPEEA ISLAKTTFDE AMADLHTLSE DSYKDSTLIM QLLRDNLTLW TADNAGEEGG EAPQEPQS
Characteristics:	Recombinant Human Stratifin is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Ser248) of Human Stratifin.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	14-3-3 sigma/SFN (SFN)
Alternative Name:	Stratifin (SFN Products)
Background:	Stratifin (SFN) belongs to the 14-3-3 family of proteins that act as important regulators of intracelluar signal transduction through their ability to bind specific motifs phosphorylated on serine or threonine. There are at least seven isoforms that have been identified in mammals (beta, gamma, epsilon, sigma, zeta, tau and eta). SFN can detected in many tissues, highly expressed in stratified squamous keratinizing epithelium. SFN is indicated as an epithelial cell marker and serves as a tumor suppressor whose expression can be down regulated by methylation. In addition, SFN plays a key role in maintaining the G2 checkpoint in cells and preventing mitotic death. Alternative Names: 14-3-3 Protein Sigma, Epithelial Cell Marker Protein 1, Stratifin, SFN, HME1
Molecular Weight:	27.77 kDa
UniProt:	P31947
Pathways:	p53 Signaling, Myometrial Relaxation and Contraction

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 250 mM NaCl, 1 mM EDTA, 1 mM DTT, pH 7.4.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

	Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months