Stratifin Protein, Human (N-His, C-Myc)

Cat. No.:	HY-P700308
Synonyms:	14-3-3 Protein Sigma; Epithelial Cell Marker Protein 1; Stratifin; SFN; HME1
Species:	Human
Source:	E. coli
Accession:	P31947 (M1-S248)
Gene ID:	2810
Molecular Weight:	Approximately 34 kDa

PROPERTIES

AA Sequence	M E R A S L I Q K A K L A E Q A E R Y E D M A A F M K G A V E K G E E L S C E E R N L L S V A Y K N V V G G Q R A A W R V L S S I E Q K S N E E G S E E K G P E V R E Y R E K V E T E L Q G V C D T V L G L L D S H L I K E A G D A E S R V F Y L K M K G D Y Y R Y L A E V A T G D D K K R I I D S A R S A Y Q E A M D I S K K E M P P T N P I R L G L A L N F S V F H Y E I A N S P E E A I S L A K T T F D E A M A D L H T L S E D S Y K D S T L I M Q L L R D N L T L W T A D N A G E E G G E A P Q E P Q S
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Stratifin, also known as 14-3-3 sigma, encoded by the SFN gene, is a multifunctional protein belonging to the 14-3-3 family. It serves as an adapter protein, engaging in diverse cellular processes by binding to numerous partners through the recognition of phosphoserine or phosphothreonine motifs. Its pivotal roles include regulation of epithelial cell growth and protein synthesis when bound to keratin 17 (KRT17), as well as potential involvement in MDM2 autoubiquitination and degradation, leading to the activation of the tumor suppressor p53. Existing as a homodimer and participating in various protein complexes, stratifin interacts with a wide array of proteins, such as GAB2, SAMSN1, SRPK2, COPS6, COP1, DAPK2,

	PI4KB, SLITRK1, and LRRK2, showcasing its versatility in orchestrating crucial cellular processes and signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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