

AR09318PU-N**Human 14-3-3 protein sigma / SFN (1-248) - Purified****Alternate names:**

Epithelial cell marker protein 1, HME1, Stratifin

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

14-3-3 sigma, also known as Stratifin (SFN), belong 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.

Uniprot ID:[P31947](#)**NCBI:**[NP_006133](#)**GenelD:**[2810](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 50 mM NaCl, 10% glycerol**Description:**

Recombinant human 14-3-3 sigma was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR
VLSSIEQKSN EEGSEEKGPE VREYREKVVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY
LKMKGDYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNP IRL GLALNFSVVFH
YEIANSPEEA ISLAKTTFDE AMADLHTLSE DSYKDSTLIM QLLRDNLTLW TADNAGEEGG
EAPQEPQS

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

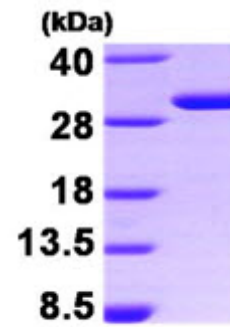
Shelf life: one year from despatch.

General Readings:

Benzinger A., et al. (2005) Mol Cell Proteomics. 4(6): 785-95.

Wilker E W., et al. (2005) J Biol Chem. 280:18891-18898.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human 14-3-3 sigma, 1- 248
aa: 15% SDS-PAGE (3 µg)

