

# Product information



## 14-3-3 sigma, 1- 248aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP0435

**Synonyms:** YWHAS, Stratifin(SFN), HME1

**NCBI Accession No.:** NP\_006133

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

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 50mM NaCl, 10% glycerol</p> <p><b>Molecular Weight:</b> 27.7 kDa (248aa)</p> <p><b>Purity:</b> &gt; 95% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
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### Sequences of amino acids:

MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR VLSSIEQKSN EEGSEEKQPE VREYREKQVET  
ELQGVCDTVL GLLDShLIKE AGDAESRVFY LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNP IRL GLALNFSVFH  
YEIANSPEEA ISLAKTTFDE AMADLHTLSE DSYKDSTLIM QLLRDNLTLW TADNAGEEGG EAPQEPQS

### General references:

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

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

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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