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## Product Data Sheet

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Product Name: FSCN1 Human  
 Cat. No.: GP23514  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Strongylocentrotus Purpuratus; actin-bundling protein; FAN1; HSN; SNL.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MTANGTAEAV QIQFGLINCG NKYLTAEAFG FKNASASSL KKKQIWTLEQ PPDEAGSAAV CLRSHLGRYL AADKDGNVTC EREVPGPDCR FLIVAHDDGR WSLQSEAHRR YFGGTEDRLS CFAQTVSPA E KWSVHIAMHP QVNIYSVTRK RYAHLSARPA DEIAVDRDVP WGVDSLITLA FQDQRYSVQT ADHRFLRHDG RLVARPEPAT GYTLEFRSGK VAFRDCEGRY LAPSGPSGTL KAGKATKVGK DELFALEQSC AQVVLQAANE RNVSTRQGMD LSANQDEETD QETFQLEIDR DTKKCAFRTG TGKYWTLTAT GGVQSTASSK NASCYFDIEW RDRRITLRAS NGKFVTSKKN GQLAASVETA GDSEFLMKL INRPIIVFRG EHGFIGCRKV TGTL DANRSS YDVFQLEFND GAYNIKDSTG KYWTVGSDSA VTSSGDTPVD FFFEFCDYNK VAIKVGGRYL KGDHAGVLKA SAETVDPASL WEY.		
Formulation	1mg/ml solution containing 20mM Tris pH-8, 2mM DTT, 0.1M NaCl & 20% glycerol.		

### Introduction

FSCN1 is an actin-bundling protein that is responsible for rigidity to filopodial bundles to efficiently push the membrane forward during cytoskeleton remodeling and cell migration. FSCN1 takes part in the gathering of actin filament bundles present in microspikes, membrane ruffles, and stress fibers. FSCN1 is absent from most normal epithelia though is upregulated in multiple forms of human carcinoma, where its expression associates clinically with a poor prognosis. FSCN1 expression is abundantly found in neurons, glial cells, and endothelial cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FSCN1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 513 amino acids (1-493 a.a.) and having a molecular mass of 56.7 kDa. The FSCN1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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