

## Product Description

**Product Name:** Fascin1 Protein

**Synonyms:** Fascin homolog 1, actin-bundling protein, FSCN1, SNL, p55

**Catalogue Number:** 10150

**Source:** Human, recombinant full length, his-tag

**Expression Host:** E. coli

**Molecular Weight:** 55 kDa

**Purity:** >95% by SDS-PAGE

**Introduction:** Fascin is an ~58 kDa monomeric actin filament bundling protein. It is required to maximally cross-link the actin filaments into straight, compact, and rigid bundles, and contributes to the formation of filopodia that are critical for cell migration. Elevated levels of fascin have been found in metastatic tumors and are correlated with clinically aggressive phenotypes, poor prognosis, and shorter survival.

### Amino Acid Sequence (1-493)

MTANGTAEAVQIQFGLINCGNKYLTAFAFGFKVNASAS  
SLKKKQIWTLEQPPDEAGSAAVCLRSHLGRYLAADKDG  
NVTCEVPGPDCRFLIVAHDDGRWSLQSEAHRRYFEG  
TEDRLSCFAQTVSPA EKWSVHIAMHPQVNIYSVTRKRY  
AHL SARP ADEIAVDRDVPWGVDSLITLAFQDQRYSVQT  
ADHRFLRH DGR LVARPEPATGYTLEFRSGKVAFRDCEG  
RYLAPSGPSGTLKAGKATKVGKDELFALEQSCAQVVLQ  
AANERNVSTRQGM DLSANQDEETDQETFQLEIDRDTKK  
CAFRTHTGKYWTLTATGGVQSTASSKNASCYFDIEWRD  
RRITLRASNGKFVTSKKNQQLAASVETAGDSEFLMKL  
INRPIIVFRGEHGFICRKTGTLDANRSSYDVFQLEF  
NDGAYNIKDSTGKYWTVGSDSAVTSSGDTVPDFFFEFC  
DYNKVAIKVGGRYLKG DHAGVLKASAE TVDPASLWEY

### Properties

**Physical Appearance (form):** Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.

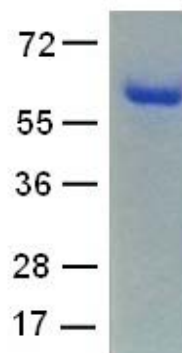
**Physical Appearance (form):** White or clear.

**Concentration:** 1 mg/mL

**Storage:** -80° C

### Preparation Instructions

Centrifuge the vial before open the cap and reconstitute in water. Adding of 10 mM  $\beta$ -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl  $\beta$ -D-maltoside(DoDM) or polyethylene detergents (e.g. C<sub>12</sub>E<sub>10</sub>) also help to stabilize the protein. Avoid repeated freezing and thawing after reconstitution.



The purity of GST-tagged Fascin was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

### References

1. Mosialos, G. et al., Am. J. Path. 148: 593-600, 1996.
2. Ono, S. et al., J. Biol. Chem. 272: 2527-2533, 1997.
3. Pinkus, G. S. et al., Am. J. Path. 150: 543-562, 1997.
4. Sonderbye, L. et al., Adv. Exp. Med. Biol. 471: 41-46, 1997.

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5. Yamakita, Y. et al., J. Biol. Chem. 271: 12632-12638, 1996.
6. Yamashiro-Matsumura, S. et al., J. Biol. Chem. 260: 5087-5097, 1985.
7. Zhang, J. et al., Science 325: 1250-1254, 2009.

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