

## DATASHEET

### Fascin

Human, recombinant, untagged  
(~90% purity)

For Research Use Only.  
Not for Use in Diagnostic Processes.

Quantity: 1.0mg  
Cat. #: 8411-02

### Product Description

Fascin is an actin-binding protein of approx. 55kD which was initially isolated from sea urchin eggs, but has later been shown to be present in many other non-vertebrate and vertebrate organisms including man. Fascin is an actin-binding protein, which belongs to the group of actin filament bundling proteins. It forms bundles of tightly packed, rigid parallelized filaments, which *in vivo* are observed as microspikes or filopodia in the periphery of many cell types playing a critical role in cell motility.

The stoichiometry of actin and fascin in the bundles is such that it is assumed to bind to every fourth or fifth actin molecule in a filament. The fascin molecule is globular and consists of four domains with a trefoil beta-sheet assembly as the major structural element in each domain. Fascin is a monomeric protein *in vivo*, and therefore two actin binding sites are required in the molecule. They are located in the beta trefoils of domain 1 and 3 within two highly conserved sequence regions. The activity of fascin is apparently regulated by phosphorylation, since the protein is phosphorylated by protein kinase C at <sup>39</sup>Ser, located within a sequence region assumed to contain an actin binding site. Fascin is not Calcium ion dependent. It also binds beta-catenin.

The protein concentration of Fascin was measured at OD<sub>280</sub> (0.1%=1.224) and the purity by scanning densitometry of Coomassie G-250 stained SDS-Gels. Lyophilized Fascin contains 150mM NaCl, 20mM Hepes pH 7.4, 1mM DTT and 5% sucrose, when reconstituted with ultrapure H<sub>2</sub>O to a 1.0 mg/ml solution.

### Product Handling

#### Preparation of a working stock

Add 1.0ml H<sub>2</sub>O to the tube with Fascin to obtain a 1mg/ml stock. Vortex mildly and allow the protein to rehydrate for 2min and vortex again. Quickly spin the tube up to ~3.000xg for seconds to collect the solution at the bottom. Depending on the purpose this stock solution is ready-to-use. For critical assays we recommend buffer exchange against 150mM NaCl, 20mM Hepes pH 7.4, 1mM DTT.

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### Fascin

Human, recombinant, untagged  
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Quantity: 50µg  
Cat. #: 8411-01

### Product Storage and Stability

Store the product at -70° upon arrival, where it will be stable for at least 6 months. Once dissolved, Fascin is kept on ice and should be used within 5 days. Avoid refreezing. Aliquots may be prepared from the freshly reconstituted protein for storage at -20°C in 50% glycerol (final concentration).

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