

# Recombinant Human Fibronectin/CIG/FN1 Protein

Catalog No.: RP01427 Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 2335 P02751

**Tags** 

C-His

**Synonyms** 

FN1;CIG;ED-B;FINC;FN;FNZ;GFND;GFND2;LETS;MSF;fi bronectin

# **Product Information**

Source

Purification

HEK293 cells

≥ 90 % as determined by SDS-

PAGE.

Calculated MW Observed MW

72.66 kDa 90-100 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### **Contact**

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# **Background**

Fibronectin (FN) is a glycoprotein component of the extracellular matrix of the extracellular matrix (ECM) with roles in embryogenesis, development, and wound healing. More recently, FN has emerged as player in platelet thrombus formation and diseases associated with thrombosis including vascular remodeling, atherosclerosis, and cardiac repair following a myocardial infarct. Each monomer of FN consists of three types of homologous repeating units, that is 12 type I repeats, two type II repeats and 15-17 type III repeats. The occurrence of multiple isoforms results from alternative mRNA splicing of the ED-A, ED-B and III-CS regions, and subsequent posttranslational modification. As an ECM component and one of the primary cell adhesion molecules, Fibronectin can be a ligand for fibrin, heparin, chondroitin sulfate, collagen/gelatin, as well as many integrin receptors through which FN mediates the variety of cellular signaling pathways. The study of solid human tumors showed among the early signs of malignant transformation the fragmentation of pericellular FN, concommitent with the increase of its production by the peritumoral stroma. These results should encourage further investigations concerning the potential importance of Fn production and breakdown during cancer progression. FN1 expression has been described to increase significantly from the morula towards the early blastocyst stage, suggesting that FN1 may also be involved in early blastocyst formation. The fragment 2 of FN comprises the first 7 FN type III repeats and is suggested to be important for self association during fibril growth via the key module 1112.

### **Basic Information**

#### **Description**

Recombinant Human Fibronectin/CIG/FN1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser607-Pro1265) of human Fibronectin (Accession #NP\_997647.1) fused with a  $6 \times \text{His}$  tag at the C-terminus.

### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human Fibronectin at 1  $\mu$ g/mL (100  $\mu$ L/well) can bind Fibronectin Rabbit mAb with a linear range of 0.1-0.89 ng/mL.

### Storage

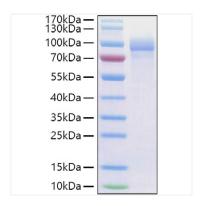
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20  $^{\circ}\text{C}$  for 3 months, at 2-8  $^{\circ}\text{C}$  for up to 1 week.

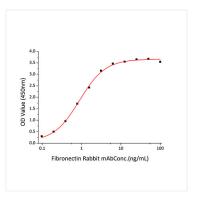
Avoid repeated freeze/thaw cycles.

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# **Validation Data**



Recombinant Human Fibronectin/CIG/FN1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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