

# Active Recombinant Human FN1

**Cat. No.** FN1-108H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human Fibronectin fragment/RetroNectin is produced with our E. coli expression system. The target protein is expressed with sequence (Pro1270-Ser1546 & Ala1721-Thr2016) of Human Fibronectin.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1270-1546;1721-2016 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Fibronectin1(FN1) is a secreted protein and contains 12 fibronectin type-I domains, fibronectin type-II domains and 16 fibronectin type-III domains. Recombinant human fibronectin fragment, is a protein of 63 kDa containing a central cell-binding domain (type III repeat, 8, 9, 10), a high affinity heparin-binding domain II (type III repeat, 12, 13, 14), and CS1 site within the alternatively spliced III CS region of human fibronectin. Cells bind to a VLA-4 ligand, a CS-I site, and a VLA-5 ligand, a cell attachment domain, and virus vectors binds to a heparin binding domain II, which co-locates the cell and the virus vector on RetroNectin. |
| <b>Form</b>             | Lyophilized from a 0.2 µM filtered solution of PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | < 700="" ng/ml(jurkat="">                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | Less than 0.1 EU/µg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.                                                                                                                                                                                                              |
| <b>Storage</b>        | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 years. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 years.                                       |
| <b>Reconstitution</b> | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FN1 fibronectin 1 [ Homo sapiens ]                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | FN1                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | FN1; fibronectin 1; fibronectin; CIG; cold insoluble globulin; FINC; GFND2; LETS; migration stimulating factor; MSF; cold-insoluble globulin; migration-stimulating factor; FN; FNZ; ED-B; GFND; DKFZp686H0342; DKFZp686I1370; DKFZp686F10164; DKFZp686O13149; |
| <b>Gene ID</b>         | 2335                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_002026                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_002017                                                                                                                                                                                                                                                      |
| <b>MIM</b>             | 135600                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | P02751                                                                                                                                                                                                                                                         |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 2q34                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; |
| <b>Function</b>            | collagen binding; extracellular matrix structural constituent; heparin binding; protein binding;                                                                                                                                                                                                                                                                                                                            |

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