

Active GMP Recombinant Human FN1 Protein

Cat. No. FN1-154HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NF1, Pro1270-Ser1546&Ala1721-Thr2016, was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	1270-1546;1721-2016 a.a.
Description	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, a high affinity heparin-binding domain II, 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 NovoNectin. This process enhances the density of both cells and vectors, and facilitates the gene transduction in the result.
Form	Lyophilized.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 1×10E5 cells/well are added to Fibronectin-coated plates (7-13 ng/mL and 100

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μL/well), approximately 50%-80% will adhere specifically after 30 minutes at 37°C.

AA Sequence

MPTDLRFTNIGPDTMRVTWAPPPSIDLTNFLVRYSPVKNEEDVAELSISPSDNAVVL
 NLLPGTE YVSVSSVYEQHESTPLRGRQKTGLDSPTGIDFSDITANSFTVHWIAPRA
 TITGYRIRHHPEHFS GRPREDRVPHSRNSITLTNLTPGTEYVVSIVALNGREESPLLI
 GQQSTVSDVPRDLEVVAATPTS LLISWDAPAVTVRYYRITYGETGGNSPVQEFTVP
 GSKSTATISGLKPGVDYTITVYAVTGRGDSP ASSKPISINYRTEIDKPSMAIPAPTDLK
 FTQVTPTSLSAQWTPPNVQLTGYRVRVTPKEKTGPMK EINLAPDSSSVVVSGLMVA
 TKYEVSUYALKDTLTSRPAQGVVTTLENVSPRRARVTDATETTIT ISWRTKTETITG
 FQVDAVPANGQTPIQRTIKPDVRSYTITGLQPGTDYKIYLYTLNDNARSSPVV IDAST
 AIDAPSNLRFLATTPNSLLVSWQPPRARITGYIIKEYKPGSPPREVVPRPRPGVTEATI
 T GLEPGTEYTIYVIALKNNQKSEPLIGRKKTDLPQLVTLPHPNLHGPEILDVPST

**Residual Host Cell
DNA Content** <10pg/mg

**Residual Host Cell
Protein Content** <1ug/mg

Endotoxin <0.1EU/ug

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Lyophilized and reconstituted protein should be stored at -80 centigrade. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
 It is not recommended to reconstitute to a concentration >100μg/ml.
 Dissolve the lyophilized protein in ddH₂O.
 Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Quality Statement Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name FN1 fibronectin 1 [Homo sapiens]

Official Symbol FN1

Synonyms 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

Gene ID 2335

mRNA Refseq NM_002026

Protein Refseq NP_002017

MIM 135600

UniProt ID P02751

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