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 areadded to Fibronectin-coated plates (7-13 ng/mL and 100

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	μL/well), approximately 50%-80% will adhere specifically after 30 minutes at 37°C.
AA Sequence	MPTDLRFTNIGPDTMRVTWAPPPSIDLTNFLVRYSPVKNEEDVAELSISPSDNAVVLT NLLPGTE YVVSVSSVYEQHESTPLRGRQKTGLDSPTGIDFSDITANSFTVHWIAPRA TITGYRIRHHPEHFS GRPREDRVPHSRNSITLTNLTPGTEYVVSIVALNGREESPLLI GQQSTVSDVPRDLEVVAATPTS LLISWDAPAVTVRYYRITYGETGGNSPVQEFTVP GSKSTATISGLKPGVDYTITVYAVTGRGDSP ASSKPISINYRTEIDKPSMAIPAPTDLK FTQVTPTSLSAQWTPPNVQLTGYRVRVTPKEKTGPMK EINLAPDSSSVVVSGLMVA TKYEVSVYALKDTLTSRPAQGVVTTLENVSPPRRARVTDATETTIT ISWRTKTETITG FQVDAVPANGQTPIQRTIKPDVRSYTITGLQPGTDYKIYLYTLNDNARSSPVV IDAST AIDAPSNLRFLATTPNSLLVSWQPPRARITGYIIKYEKPGSPPREVVPRPRPGVTEATI T GLEPGTEYTIYVIALKNNQKSEPLIGRKKTDELPQLVTLPHPNLHGPEILDVPST
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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA