

Recombinant Human Fibronectin III 8-10, 13, GST-tagged

Cat. No. FN1-107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant FN fragment corresponds to amino acids 1235-1509 of type-III 8-10, joined to 1782-1870 of type-III 13 by an ID linker. This fragment contains the complete integrin binding region of the peptide, required for cell binding and adhesion, as well as the C-terminal heparin binding domain region.
Species	Human
Source	E.coli
Protein Length	1235-1509 a.a.
Description	Fibronectins (FN) are a family of high molecular weight, multidomain glycoproteins composed of two structurally similar subunits which are joined at the carboxyl terminus by disulfide bonds. The primary structure of FN is organized into three types of repeating homologous units, termed types I, II, and III. These modules in turn are organized into functional domains which have been shown to contain multiple binding sites, including those for sulfated glycosaminoglycans, gelatin, fibrin, and cell surface integrin receptors. Twelve type I modules are found grouped at the amino- and carboxyl-terminal regions, and two type II modules are located within the gelatin-binding region. Fifteen to seventeen type III modules are contained within the middle of the molecule and comprise 60% of fibronectin's sequence.
Molecular Mass	66364.3 Da
AA Sequence	AVPPPTDLRFTNIGPDTMRVTWAPPPSIDLTNFLVRYSPVKNEEDVAELSISPSDNAV

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VLTNLLPGTEYVVS SVSS VYEQHESTPLRGRQKTGLDSPTGIDFSDITANSFTVHWIA
 PRATITGYRIRHHPEHFSGRPREDRVPHSRNSITL TNLTPGTEYVVSIVALNGREESP
 LLIGQQSTVSDVPRDLEVVAATPTSL LISWDAPAVTVRYYRITYGETGGNSP VQEFT
 VPGSKSTATISGLKPGVDYTITVYAVTGRGDSPASSKPISINYRT*ID*NVSPRRARV
 TDATE TTITIS WRTKTETITGFQVDAVPANGQTPIQRTIKPDVRSYTITGLQPGTDYKI
 YLYTLNDNARSSPVVIDAST

Purity > 90% by SDS-PAGE

Storage Store at -80°C

Concentration 4.0 mg/ml

Storage Buffer Solution in PBS

Shipping Dry Ice

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; DKFZp686H0342; DKFZp686I1370; DKFZp686F10164; DKFZp686O13149;

Gene ID 2335

mRNA Refseq NM_002026

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Protein Refseq	NP_002017
MIM	135600
UniProt ID	P02751
Chromosome Location	2q34
Pathway	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;
Function	collagen binding; extracellular matrix structural constituent; heparin binding; protein binding;

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