Fibronectin (FN1) Human Protein

PRODUCT OVERVIEW

Product Name	Fibronectin (FN1), Protein
Full Product Name	Human Fibronectin
Product Gene Name	FN1 protein
Host	Human plasma
Form/Format	Frozen liquid
Purity/Purification	>95% by SDS-PAGE analysis
Concentration	10.0 mg/ml (lot specific)
Preparation and Storage	Store at -70 degree C. Shelf Life: 3 years from delivery
Molecular Weight	220,000
Chromosome Location	Chromosome: 2; NC_000002.11 (216225177..216300791, complement). Location: 2q34
OMIM	135600
3D Structure	ModBase 3D Structure for P02751
Buffer	0.1 M Tris-Cl; 0.15 M NaCl; pH 7.4
Extinction Coefficient	1.28
Product Categories/Family for FN1 protein	Fibronectin; Human Fibronectin
Related Product Information for FN1 protein	Prepared from fresh human plasma. Ideal reagent for tissue culture studies and protein-protein interactions. Thaw the fibronectin by placing the vial in a 37 C water bath and leaving it undisturbed until completely thawed. Do not disturb the vial at any t
Other Notes	Small volumes of FN1 protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FN1 purchase	MBS135795 is a protein targeting FN1. Also known as Human Fibronectin. Host: Human plasma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FN1. It may not necessarily be applicable to this product.

NCBI GI #	16933542
NCBI GeneID	2335
NCBI Accession #	NP_002017.1
UniProt Primary Accession #	P02751
UniProt Secondary Accession #	O95609; O95610; Q14312; Q14325; Q14326; Q17RV7; Q585T2; Q59EH1; Q60FE4; Q68DP8; Q68DP9
UniProt Related Accession #	P02751
GenBank Nucleotide #	NM_002026.2
NCBI Official Full Name	fibronectin isoform 3 preproprotein

NCBI Official Synonym Full Names	fibronectin 1
NCBI Official Symbol	FN1
NCBI Official Synonym Symbols	FN; CIG; FNZ; MSF; ED-B; FINC; GFND; LETS; GFND2
UniProt Protein Name	Fibronectin
UniProt Synonym Protein Names	Cold-insoluble globulin
Protein Family	Fibronectin
UniProt Gene Name	FN1
UniProt Synonym Gene Names	FN; FN; CIG
UniProt Entry Name	FINC_HUMAN
NCBI Protein Information	fibronectin; cold-insoluble globulin; migration-stimulating factor
NCBI Summary for FN1	This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants. However, the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for FN1	FN1: Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape. Defects in FN1 are the cause of glomerulopathy with fibronectin deposits type 2 (GFND2); also known as familial glomerular nephritis with fibronectin deposits or fibronectin glomerulopathy. GFND is a genetically heterogeneous autosomal dominant disorder characterized clinically by proteinuria, microscopic hematuria, and hypertension that leads to end-stage renal failure in the second to fifth decade of life. 15 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Cell adhesion; Motility/polarity/chemotaxis; Secreted Chromosomal Location of Human Ortholog: 2q34 Cellular Component: extracellular matrix; extracellular space; apical plasma membrane; fibrinogen complex; extracellular region; ER-Golgi intermediate compartment; basal lamina Molecular Function: collagen binding; heparin binding; integrin binding; protein binding; protease activator activity; protease binding Biological Process: integrin activation; platelet activation; extracellular matrix organization and biogenesis; positive regulation of axon extension; regulation of cell shape; extracellular matrix disassembly; platelet degranulation; acute-phase response; response to wounding; calcium-independent cell-matrix adhesion; cell-substrate junction assembly; peptide cross-linking; angiogenesis; cell adhesion; blood coagulation; leukocyte migration Disease: Glomerulopathy With Fibronectin Deposits 2; Plasma Fibronectin Deficiency
Research Articles on FN1	**1.** The interaction of TNC with immobilized FN was attenuated, the scratch wound closure by keratinocytes was delayed and the inhibition of cell spreading on FN by TNC was recovered in the presence of SSL8.
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