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Fibronectin 1 Protein (FN1) (His tag)



Overview

Quantity:	10 μg
Target:	Fibronectin 1 (FN1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Fibronectin 1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Fibronectin/CIG/FN1 Protein
Sequence:	NIDRPKGLAF TDVDVDSIKI AWESPQGQVS RYRVTYSSPE DGIHELFPAP DGEEDTAELQ
	GLRPGSEYTV SVVALHDDME SQPLIGTQST
Specificity:	Asn1722-Thr1811
Purity:	> 90 % by SDS-PAGE.
Sterility:	0.22 μm filtered
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of NIH-3T3 mouse
	embryonic fibroblast cells.When cells are added to Fibronectin coated plates (2.5 $\mu g/mL$ and
	100 ut /well) approximately 30%-40% cells will adhere specifically after 30 minutes at 37°C

Target Details

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Target Details

Alternative Name:	Fibronectin/CIG/FN1 (FN1 Products)
Background:	Description: Fibronectin (FN) is a glycoprotein component of the extracellular matrix of the
	extracellular matrix (ECM) with roles in embryogenesis, development, and wound healing. More
	recently, FN has emerged as player in platelet thrombus formation and diseases associated
	with thrombosis including vascular remodeling, atherosclerosis, and cardiac repair following a
	myocardial infarct. Each monomer of FN consists of three types of homologous repeating
	units, that is 12 type I repeats, two type II repeats and 15-17 type III repeats. The occurrence of
	multiple isoforms results from alternative mRNA splicing of the ED-A, ED-B and III-CS regions,
	and subsequent post-translational modification. As an ECM component and one of the primary
	cell adhesion molecules, Fibronectin can be a ligand for fibrin, heparin, chondroitin sulfate,
	collagen/gelatin, as well as many integrin receptors through which FN mediates the variety of
	cellular signaling pathways. The study of solid human tumors showed among the early signs o
	malignant transformation the fragmentation of pericellular FN, concommitent with the increase
	of its production by the peritumoral stroma. These results should encourage further
	investigations concerning the potential importance of Fn production and breakdown during
	cancer progression. FN1 expression has been described to increase significantly from the
	morula towards the early blastocyst stage, suggesting that FN1 may also be involved in early
	blastocyst formation. The fragment 2 of FN comprises the first 7 FN type III repeats and is
	suggested to be important for self association during fibril growth via the key module III2.
	Name: FN1,CIG,ED-B,FINC,FN,FNZ,GFND,GFND2,LETS,MSF,fibronectin
Gene ID:	2335
UniProt:	P02751
Pathways:	Cellular Response to Molecule of Bacterial Origin, Carbohydrate Homeostasis, Autophagy
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile
reconstitution.	distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is
	recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %
	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Handling

Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein
	solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.