

Approximately 70 proteins were identified in mesenchymal cell-conditioned medium by using Raybiotech Quantibody® protein array analysis, including:

- growth factors (FGF-4; VEGF-A; HGF; FGF-7; FGF-2; BMP-5; IGF-I),
- cytokines (IL-6; IL-16; SCF; IL-15; M-CSF; IL-29),
- chemokines (MCP-1; MIF; CXCL-16; GRO; IL-8),
- carrier proteins (IGFBP-4; IGFBP-1; IGFBP-6; IGFBP-2; IGFBP-3), and
- other proteins (TIMP-1; TIMP-2; Osteoprotegerin; TNF-Receptor I; Axl; BMP-5; ICAM-1).

The list below shows those proteins (n=35) that were found in quantities greater than 0.5 ng per 400 mg of solids. The solids contain mainly disaccharides.

No.	Proteins	Possible functions
1	IGFBP-4	IGF-binding proteins stimulate wound healing
2	TIMP-2	TIMP-2 inhibits mmp14 & other mmp collagenases
3	IGFBP-6	stimulates wound healing
4	IGFBP-2	stimulates wound healing
5	Insulin	stimulates wound healing
6	IGFBP-3	stimulates wound healing
7	TIMP-1	inhibits mmp collagenases
8	FGF-4	stimulates angiogenesis/wound healing
9	VEGF-A	stimulates angiogenesis
10	HGF	stimulates angiogenesis
11	MCP-1	attracts monocytes; stimulates angiogenesis
12	MIF	attracts monocytes
13	IL-6	stimulates wound healing
14	Osteoprotegerin	a decoy receptor for RANKL
15	FGF-7 (KGF-1)	stimulates keratinocytes
16	FGF-2	stimulates angiogenesis
17	CXCL16	attracts monocytes; stimulates angiogenesis
18	GRO	CXCL2 chemokine
19	EGF-Receptor	
20	CXCL5 (ENA78)	chemokine involved in angiogenesis
21	TNF-Receptor I	reduces inflammation
22	Axl	
23	PF4	
24	BMP-5	stimulates ECM synthesis
25	ICAM-1	
26	MCF-Receptor	
27	IGFBP-1	stimulates wound healing
28	OPN	
29	IGF-I	stimulates wound healing
30	IL-16	
31	SCF	
32	CXCL8 (IL-8)	chemokine involved in angiogenesis
33	IL-15	
34	M-CSF	stimulates angiogenesis
35	MDC	