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FGF Family

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Fibroblast Growth Factors	MW-Secreted form (mouse)	Estimated <i>pl</i> (mouse)	Target Cells (Partial List)	Receptors	Functions (Partial List)
FGF1 (Acidic FGF) Heparin-Binding Growth Factor-1 (HBGF-1) ECGF-beta (Endothelial Cell Growth Factor-beta)	15.8 kDa (15.7 kDa)	7.99 (7.88)	mesenchymal, neuroectodermal endothelial cells	all FGF receptors	Angiogenic <i>in vivo</i> , mitogenic in <i>in vitro</i> , wound healing
FGF2 (Basic FGF) Heparin-Binding Growth Factor-2 (HBGF-2) Prostatropin	17.2 kDa (17.1 kDa)	10.03 (9.59)	mesenchymal, neuroectodermal endothelial cells	1b, 1c, 2c, 3c, 4	Vasculogenesis, wound healing, angiogenesis, hematopoiesis, neuron survival
FGF3 int-2	24.9 kDa (25.2 kDa)	10.98 (10.84)	epithelial cells that express FGF receptor 2b	2b	Mesoderm induction, angiogenesis, inner ear development
FGF4 Heparin Secretory Transforming protein (HST-1) Transforming protein KS3 Heparin-Binding Growth Factor-4 (HBGF-4)	19.7 kDa (18.9 kDa)	10.22 (10.24)	cells that express FGF receptors	1c, 2c, 3c, 4	Angiogenesis, vertebrate limb development and development of stomach cancer
FGF5 Heparin-Binding Growth Factor-5 (HBGF-5) Smag-82	27.6 kDa (27.1 kDa)	11.1 (10.50)	cells that express FGF receptors	1c, 2c	Hair growth and development
FGF6 Heparin-Binding Growth Factor-6 (HBGF-6) HST-2	18.7 kDa (18.9 kDa)	10.09 (9.80)	cells that express FGF receptors	1c, 2c, 4	Skeletal muscle development
FGF7/KGF (Keratinocyte Growth Factor) HST-6 Heparin-Binding Growth Factor-7 (HBGF-7)	18.9 kDa (18.8 kDa)	9.55 (9.22)	keratinocytes and epithelial cells that express FGF receptor 2b	2b	Keratinocyte growth factor, kidney and lung development, angiogenesis and wound healing
FGF8 Androgen-Induced Growth Factor (AIGF) Heparin-Binding Growth Factor-8 (HBGF-8)	22.4 kDa (28.0 kDa)	10.95 (10.46)	mammary carinoma cells and other cells that express FGF receptors	2c, 3c, 4 (possibly 1c)	Limb, central nervous system, cardiac outflow tract development
FGF9 Glia Activating Factor (GAF) Heparin-Binding Growth Factor-9 (HBGF-9)	23.4 kDa (23.3 kDa)	7.44 (7.44)	glial cells, astrocyte cells and other cells that express FGF receptors	1c, 2c, 3b, 3c, 4	Glia-activating factor, motor neuron survival, lung and testes development
FGF10 FGFA Keratinocyte growth factor-2	19.3 kDa (19.5 kDa)	10.49 (9.76)	epithelial cells that express FGF receptor 2b	2b	Wound healing, multi-organ including limb and lung development
FGF11 FGFB Fibroblast growth Factor Homologous Factor-3 (FHF-3)	25.0 kDa (25.1 kDa)	9.92 (10.06)	nuclear processes unrelated to the secreted FGFs	none	Appears to be involved in nervous system development and function
FGF12 FGFC Fibroblast growth factor Homologous Factor-1 (FHF-1)	27.4 kDa (27.3 kDa)	9.98 (9.98)	nuclear processes unrelated to the secreted FGFs	none	Appears to be involved in nervous system development and function
FGF13 FGFD Fibroblast growth Factor Homologous Factor-2 (FHF-2)	27.5 kDa (27.6 kDa)	9.92 (9.92)	nuclear processes unrelated to the secreted FGFs	none	Appears to be involved in nervous system development and function
FGF14 FGFE Fibroblast growth factor Homologous Factor-4 (FHF-4)	27.7 kDa (27.7 kDa)	10.11 (10.11)	nuclear processes unrelated to the secreted FGFs	none	Regulates central nervous system development and function
FGF15 FGFF, identified in mouse not human	(22.5 kDa)	(5.76)	cells that express FGF receptor 4	4	Regulator of cell division and patterning in specific regions of embryonic brain, spinal cord and sensory organs
FGF16 FGFG	23.7 kDa (23.7 kDa)	9.52 (9.36)	cells that express FGF receptors	2c, 3c	Central nervous system development
FGF17 FGFH	22.7 kDa (22.5 kDa)	11.22 (10.71)	cells that express FGF receptors	1c, 2c, 3c, 4	Signals induction and patterning of embryonic brain
FGF18 zFGF5 FGFI	20.1 kDa (20.9 kDa)	10.67 (10.09)	cells that express FGF receptors	1c, 2c, 3c, 4	An essential regulator of long bone and calvarial development
FGF19 and FGFJ, identified in human not mouse	21.8 kDa	6.32	cells that express FGF receptor 4	4	Expressed during brain development and during embryogenesis, regulates multiple metabolic processes in adulthood
FGF20 FGFK	23.2 kDa (23.6 kDa)	9.22 (8.54)	epithelial and mesenchymal cells	1c, 2c, 3c	Expressed during limb and brain development
FGF21 FGFL	19.4 kDa (19.9 kDa)	5.29 (4.59)	unknown at the time of printing	unknown at the time of printing	Expressed in liver and thymus, may play a role in Type 2 Diabetes
FGF22 FGFM	17.1 kDa (16.5 kDa)	11.71 (11.58)	hair follicle keratinocytes	unknown at the time of printing	May be involved in cutaneous development and repair, and hair development
FGF23 FGFN	25.3 kDa (25.3 kDa)	8.95 (9.64)	renal proxima epithelial cells	3c	Expressed in brain and thymus, regulates phosphate homeostasis, mutant in hypophosphatemic rickets, regulates multiple metabolic processes in adulthood

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