

Growth Factor Products (Recombinant Protein)

Growth factor is a naturally occurring substance capable of stimulating cell proliferation, wound healing, and occasionally cellular differentiation. It is a secreted protein or a steroid hormone. Growth factors are important for regulating a variety of cellular processes. Growth factors typically act as signaling molecules between cells and it often promote cell differentiation and maturation, which varies between growth factors.

• EGF (Epidermal Growth Factor)

Product name	Species	Expression system	Cat No.
EGF	H	<i>E.coli</i>	EGF0501
	M	<i>E.coli</i>	ATGP3729
	M	<i>E.coli</i>	ATGP1532
EGF-like 6	M	Baculovirus	ATGP3860
EGFR (ERBB-1/HER-1)	H	CHO Cell	ATGP3335
ERBB-2/HER-2	H	Baculovirus	ATGP3586
ERBB-3/HER-3	H	Baculovirus	ATGP3125
	M	Baculovirus	ATGP3302
GRB-2	H	<i>E.coli</i>	ATGP0286
Betacellulin	H	<i>E.coli</i>	ATGP1250
Epiregulin	H	<i>E.coli</i>	ATGP2923(D)
Epigen	H	<i>E.coli</i>	ATGP2332(D)
	H	Baculovirus	ATGP3682
NRG-1	H	Baculovirus	ATGP3990
NRG-4	H	<i>E.coli</i>	ATGP2472

• FGF (Fibroblast Growth Factor)

Product name	Species	Expression system	Cat No.
FGF-1 (FGF acidic)	H	<i>E.coli</i>	ATGP3788
	M	<i>E.coli</i>	ATGP1189
FGF-2 (FGF basic)	H	<i>E.coli</i>	ATGP3786
FGF-10	H	<i>E.coli</i>	ATGP1387
FGF-12	H	<i>E.coli</i>	FGF0902
FGF-14	H	<i>E.coli</i>	ATGP2128
FGF-17	H	<i>E.coli</i>	ATGP2092(D)
FGF-19	H	HEK293	ATGP3972
FGF-21 (L174P)	H	<i>E.coli</i>	ATGP3789

• FGF (Fibroblast Growth Factor, continued)

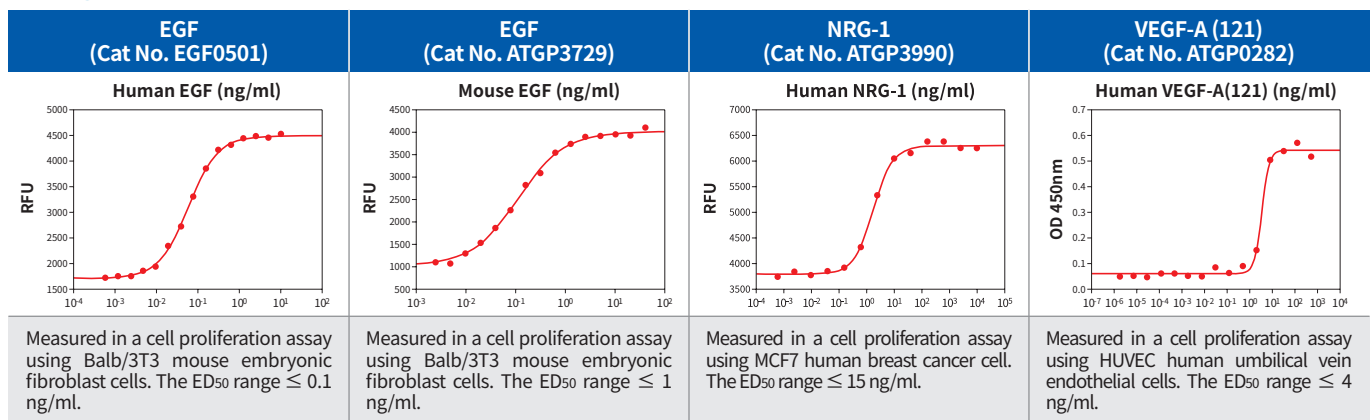
Product name	Species	Expression system	Cat No.
FGF-21	M	<i>E.coli</i>	ATGP3897
	M	Baculovirus	ATGP3300
FGF-23	H	Baculovirus	ATGP3852
FGF R1 alpha	H	Baculovirus	ATGP3647
	H	Baculovirus	ATGP3856
FGF R1 Kinase Domain	H	Baculovirus	ATGP3828
FGF R2 alpha	H	Baculovirus	ATGP3621
FGF R2 beta	H	Baculovirus	ATGP3899
FGF R3	H	Baculovirus	ATGP3654
FGF R4	H	Baculovirus	ATGP3423
FGF-BP	H	<i>E.coli</i>	ATGP2926
FIBP	H	<i>E.coli</i>	ATGP2145

• VEGF (Vascular Endothelial Growth Factor)

Product name	Species	Expression system	Cat No.
VEGF-A(120)	M	<i>E.coli</i>	ATGP0389
	R	<i>E.coli</i>	ATGP2900
VEGF-A(121)	H	<i>E.coli</i>	VEG0901
	H	<i>E.coli</i>	ATGP0282
	H	<i>E.coli</i>	ATGP1248
VEGF-A(165)	H	<i>E.coli</i>	ATGP1449
	H	Baculovirus	ATGP2873
VEGF-C	H	Baculovirus	ATGP3309
VEGF R2/KDR/Flk-1	H	Baculovirus	ATGP3627
VEGF-A R/Neuropilin-1	H	Baculovirus	ATGP3769
PIGF	M	Baculovirus	ATGP3171

H : Human M : Mouse R : Rat D : Denatured

Biological Activity Data



References

Jee JH, et al. Development of Collagen-Based 3D Matrix for Gastrointestinal Tract-Derived Organoid Culture. *Stem Cells Int.* 2019 Jun 13;2019:8472712. [PMID: 31312220] **Recombinant FGF-10 protein (Cat No. ATGP1387); Human.**
 Park E, et al. Development of organoid-based drug metabolism model. *Toxicol Appl Pharmacol.* 2019 Dec 15;385:114790. [PMID: 31678242] **Recombinant FGF-10 protein (Cat No. ATGP1387); Human.**

Goto T, et al. The hepatokine FGF21 is crucial for peroxisome proliferator-activated receptor-α agonist-induced amelioration of metabolic disorders in obese mice. *J Biol Chem.* 2017 Jun 2;292(22):9175-9190. [PMID: 28404815] **Recombinant FGF-21 protein (Cat No. ATGP3300); Mouse.**

Growth Factor Products (Recombinant Protein)

• Angiogenic Factor

Product name	Species	Expression system	Cat No.
Angiopoietin-1	H	<i>E. coli</i>	ATGP1236(D)
Angiopoietin-2	H	CHO Cell	ATGP3853
BEST Angiopoietin-like 2	H	<i>E. coli</i>	ATGP2976(D)
Angiopoietin-like 3	H	<i>E. coli</i>	ATGP3149
	H	Baculovirus	ATGP3406
Angiopoietin-like 7	M	Baculovirus	ATGP3196
Angiopoietin-1 R/Tie-2	H	Baculovirus	ATGP3947
	M	Baculovirus	ATGP3190
BEST Angiogenin	H	<i>E. coli</i>	ATGP2604(D)
	H	Baculovirus	ATGP3811

• TGF-beta Superfamily

Product name	Species	Expression system	Cat No.
BEST TGF-beta 1	H	<i>E. coli</i>	ATGP0383
	M	<i>E. coli</i>	ATGP2918(D)
BEST TGF-beta 3	H	<i>E. coli</i>	ATGP3026(D)
	beta IG-H3/BIGH3	H	<i>E. coli</i>
H		<i>E. coli</i>	BIG0905
TGF-beta RI/ALK-5	H	Baculovirus	ATGP3735
TGF-beta RII	H	Baculovirus	ATGP3355
EIF3I	H	Baculovirus	ATGP3875
TGFBRAP1	H	<i>E. coli</i>	ATGP2588(D)
TGIF2LX	H	<i>E. coli</i>	ATGP2603
TGIF2LY	H	<i>E. coli</i>	ATGP2555
GDF-5/BMP-14	H	<i>E. coli</i>	ATGP0334
	M	<i>E. coli</i>	ATGP2894(D)
GDF-8/MSTN	H	<i>E. coli</i>	ATGP2917(D)
BEST GDF-10/BMP-3b	H	<i>E. coli</i>	ATGP0336
BEST GDF-11/BMP-11	H	<i>E. coli</i>	ATGP3027(D)
BEST GDF-15	H	<i>E. coli</i>	ATGP0410
	M	<i>E. coli</i>	ATGP2913(D)
GDNF	H	Baculovirus	ATGP3942

• TGF-beta Superfamily (continued)

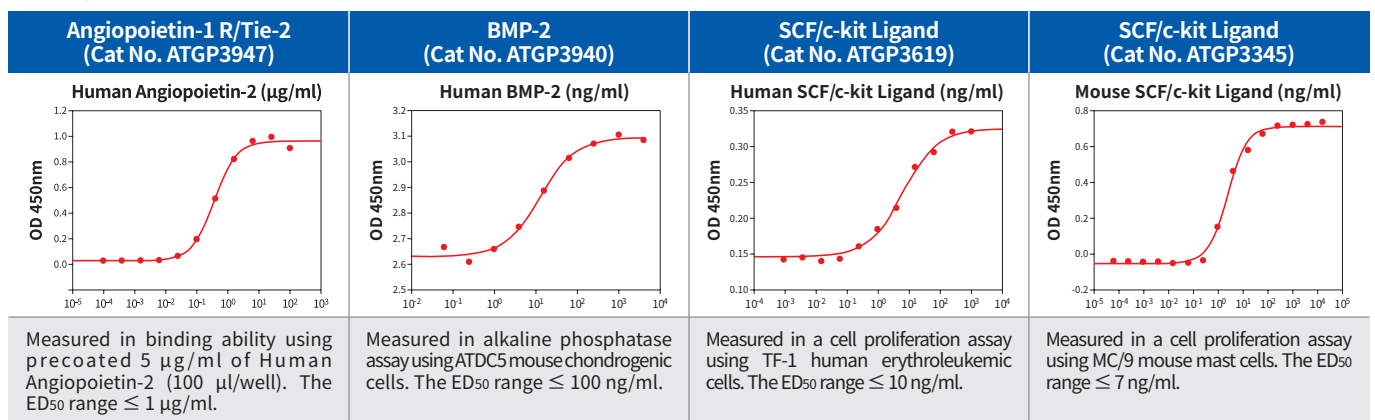
Product name	Species	Expression system	Cat No.
GFR alpha-1	R	Baculovirus	ATGP3579
GFR alpha-3	H	<i>E. coli</i>	ATGP2398(D)
	H	Baculovirus	ATGP3585
Activin A	H	<i>E. coli</i>	ATGP2979(D)
Activin C	H	<i>E. coli</i>	ATGP2223
Activin RIA/ALK-2	H	Baculovirus	ATGP3898
Activin RIIA	H	Baculovirus	ATGP3366
Inhibin A	H	<i>E. coli</i>	ATGP1898(D)
BEST BMP-2 (monomer)	H	<i>E. coli</i>	BMP0905
	BMP-2	H	<i>E. coli</i>
H		<i>E. coli</i>	ATGP3940
BEST BMP-4 (monomer)	H	<i>E. coli</i>	BMP0904
BEST BMP-5 (monomer)	H	<i>E. coli</i>	ATGP0350
BEST BMP-6	H	<i>E. coli</i>	ATGP2090
BEST BMP-7 (monomer)	H	<i>E. coli</i>	BMP0906
BEST BMP-8b	H	<i>E. coli</i>	ATGP2743(D)
ACVRL1/ALK-1	H	Baculovirus	ATGP3205
BMPR-IA/ALK-3	H	Baculovirus	ATGP3541
BMPR-IB/ALK-6	H	<i>E. coli</i>	ATGP3104

• PDGF (Platelet Derived Growth Factor)

Product name	Species	Expression system	Cat No.
PDGF-B	H	<i>E. coli</i>	ATGP3007
PDGF-D	H	<i>E. coli</i>	ATGP1711(D)
PDGF R alpha	H	<i>E. coli</i>	ATGP1153
PDGF R beta	H	Baculovirus	ATGP3721
PDAP1	H	<i>E. coli</i>	ATGP0658
BEST SCF/c-kit Ligand		<i>E. coli</i>	SCF0601
		<i>E. coli</i>	ATGP3619
		<i>E. coli</i>	SCF0801
	M	<i>E. coli</i>	ATGP3345

H : Human M : Mouse R : Rat D : Denatured

Biological Activity Data



References

Tanaka M, et al. Physico-Chemical, In Vitro, and In Vivo Evaluation of a 3D Unidirectional Porous Hydroxyapatite Scaffold for Bone Regeneration. *Materials (Basel)*. 2017 Jan 3;10(1):33. [PMID: 28772390] **Recombinant BMP-2 (monomer) protein (Cat No. BMP0905); Human.**
 Tanaka M, et al. In Vitro and In Vivo Evaluation of a Three-Dimensional Porous Multi-Walled Carbon Nanotube Scaffold for Bone Regeneration. *Nanomaterials (Basel)*. 2017 Feb 17;7(2):46. [PMID: 28336879] **Recombinant BMP-2 (monomer) protein (Cat No. BMP0905); Human.**

Qi S, et al. Cellular Internalization-Induced Aggregation of Porous Silicon Nanoparticles for Ultrasound Imaging and Protein-Mediated Protection of Stem Cells. *Small*. 2019 Jan;15(1):e1804332. [PMID: 30488562] **Recombinant BMP-2 (monomer) protein (Cat No. BMP0905); Human.**

Growth Factor Products (Recombinant Protein)

• PDGF (Platelet Derived Growth Factor, continued)

Product name	Species	Expression system	Cat No.
CD117/c-kit	H	Baculovirus	ATGP3665
M-CSF	H	<i>E.coli</i>	ATGP0432
	H	Baculovirus	ATGP3565
	M	Baculovirus	ATGP3904
M-CSF R/CD115	H	Baculovirus	ATGP3794
G-CSF	H	<i>E.coli</i>	CSF4001
	H	<i>E.coli</i>	MSF0501
GM-CSF	M	<i>E.coli</i>	MSF0801
	P	<i>E.coli</i>	ATGP3935
	H	<i>E.coli</i>	ATGP2363(D)
GM-CSF R alpha	H	Baculovirus	ATGP3697
	H	HEK293	ATGP3970
Thrombopoietin/TPO	H	HEK293	ATGP3930
	M	HEK293	ATGP3930

• IGF (Insulin Growth Factor)

Product name	Species	Expression system	Cat No.
IGF-1	H	<i>E.coli</i>	IGF0501
	R	<i>E.coli</i>	ATGP3840
IGF-2	H	<i>E.coli</i>	ATGP0836
IGFBP-3	H	<i>E.coli</i>	ATGP2991(D)
IGFBP-6	H	<i>E.coli</i>	ATGP2270
	M	Baculovirus	ATGP3411
IGFBPRP1/IGFBP-7	H	<i>E.coli</i>	ATGP2483
CTGF/CCN2/IGFBP-8	H	<i>E.coli</i>	ATGP2994(D)
IGFLR1	H	<i>E.coli</i>	ATGP2053

• HGF (Hepatocyte Growth Factor)

Product name	Species	Expression system	Cat No.
HGF	H	<i>E.coli</i>	ATGP2718(D)
HGF R/c-MET	M	Baculovirus	ATGP3896

• CNTF (Ciliary Neurotrophic Factor)

Product name	Species	Expression system	Cat No.
CNTF	H	<i>E.coli</i>	ATGP1156
	H	<i>E.coli</i>	ATGP3316
	H	<i>E.coli</i>	ATGP3455
	R	<i>E.coli</i>	ATGP3219
CNTF R alpha	H	<i>E.coli</i>	ATGP3010(D)
	H	Baculovirus	ATGP3830
	R	Baculovirus	ATGP3474

• Neurotrophin Family

Product name	Species	Expression system	Cat No.
BDNF	H	<i>E.coli</i>	ATGP3000(D)
NT-4	H	<i>E.coli</i>	ATGP1175(D)
NGF R	H	Baculovirus	ATGP3197
	H	Baculovirus	ATGP3264
TrkB/NTRK2	M	Baculovirus	ATGP3204
	M	Baculovirus	ATGP3946
TrkC/NTRK3	M	Baculovirus	ATGP3946
Midkine/MK-1/NEGF-2	H	<i>E.coli</i>	ATGP0353

• HDGF (Hepatoma Derived Growth Factor)

Product name	Species	Expression system	Cat No.
HDGF	H	<i>E.coli</i>	ATGP0402
HDGFRP3	H	<i>E.coli</i>	ATGP1366
HDGL1	H	<i>E.coli</i>	ATGP2881

H : Human M : Mouse R : Rat P : Porcine D : Denatured

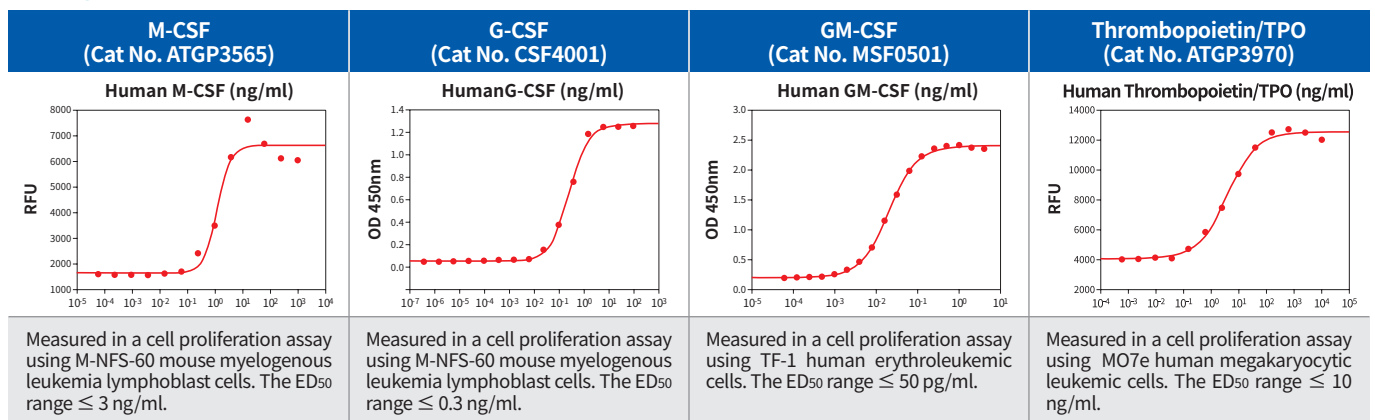
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Biological Activity Data



References

Yamada T, et al. CXCL12 regulates differentiation of human immature melanocyte precursors as well as their migration. *Arch Dermatol Res.* 2019 Jan;311(1):55-62. [PMID: 30483878] **Recombinant SCF/c-kit Ligand protein (Cat No. ATGP3619); Human.**
 Kusakabe Y, et al. A standardized blood test for the routine clinical diagnosis of impaired GM-CSF signaling using flow cytometry. *J Immunol Methods.* 2014 Nov;413:1-11. [PMID: 25068538] **Recombinant GM-CSF protein (Cat No. MSF0501); Human.**

Lee EN, et al. Stabilizing peptide fusion for solving the stability and solubility problems of therapeutic proteins. *Pharm Res.* 2005 Oct;22(10):1735-46. [PMID: 16180132] **Recombinant G-CSF protein (Cat No. CSF4001); Human.**
 Hotta M, et al. GM-CSF therapy inhibits chronic graft-versus-host disease via expansion of regulatory T cells. *Eur J Immunol.* 2019 Jan;49(1):179-191. [PMID: 30457669] **Recombinant GM-CSF protein (Cat No. MSF0801); Mouse.**