

## Cytokines & Growth Factors

### CD Antigens, Soluble Receptors & Hormones

#### Human, Mouse & Rat Origin – Recombinantly Produced in Different Host Organisms

PromoCell offers under the PromoKine brand approximately 800 different recombinant human, mouse and rat cytokines and chemokines, soluble receptors, CD antigens, hormones as well as other proteins involved in cell signaling processes.

They meet the highest quality standards, are highly purified and biologically active and were produced in *E. coli*, yeast, insect cells, plants, or mammalian cell lines (to provide native posttranslational modifications, if required).

Most of the products are delivered lyophilized at room temperature and some come ready to use in a buffer solution. Reconstitution of the lyophilized proteins should be carried out in water or common buffer solutions.

Please note: In addition to the standard sizes (typically 10–50 µg) included in our official price list, we also provide bulk sizes (100, 250, 500 & 1000 µg) at very economical prices.

Please see: [www.cytokines.info](http://www.cytokines.info)

Interleukins	e.g. IL-1 alpha, IL-1 beta, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-15, IL-16, IL-17, IL-19, IL-20, IL-21, IL-22, IL-24, IL-31, IL-32, IL-33, and IL-34
Growth and Differentiation Factors	e.g. BDNF, CTGF, CTGFL, EGF, EG-VEGF, FGFs (including FGF-1, FGF-2 and FGF-4), GDFs, GDNF, HB-EGF, HDGF, HGF, IGF-1, IGF-2, IGF-BPs, KGF, beta-NGF, PDGFs (including PDGF-AA and PDGF-BB), PLGFs, TGF-betas (including TGF-beta 1), and VEGFs (including VEGF-A)
Colony Stimulating Factors	e.g. G-CSF, GM-CSF, and M-CSF
Interferons	e.g. IFN-alpha, IFN-beta, IFN-gamma, and IFN-lambda
Chemokines	e.g. BCA-1, BRAK, CTACK, CXCL16, ENA-78, Fractalkine, GCP-2, Eotaxin, Exodus, GRO-alpha, GRO-beta, GRO-gamma, HCC-1, IP-10, I-TAC, LEC, LIX, Lymphotactin, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MDC, MEC, MIG, MIP-1, MIP-3, MIP-4, NAP-2, PF-4, RANTES, SDF-1 alpha, SDF-1 beta, TAFA, TARC, and TECK
Tumor Necrosis Factors	e.g. TNF-alpha and TNF-beta
Bone Morphogenetic Proteins	e.g. BMP-2, BMP-3, BMP-4, BMP-5, BMP-6, BMP-7, BMP-10, BMP-13, and BMP-14
Matrix Metalloproteinases	e.g. MMP-1, MMP-2, MMP-3, MMP-7, MMP-8, MMP-9, and MMP-13
Hormones	e.g. Adiponectin, CNTF, EPO-alpha, FSH, Growth Hormone (GH), Ghrelin, Insulin, Leptin, Prolactin, Relaxin, Resistin, Thymosin-beta, and TPO
CD Antigens	e.g. CD1A, CD2, CD4, CD9, CD11b, CD14, CD22, CD23, CD25, CD29, CD31, CD34, CD43, CD45, CD54, CD62, CD68, CD72, CD84, CD95, CD99, CD100, CD105, CD106, CD120, CD124, CD137, CD141, CD146, CD147, CD152, CD154/CD40L, CD269, CD274, and CD283

We also supply other important signaling proteins/peptides such as: Activin A, APRIL, Angiogenin, Angiopoietin-1, Angiostatin, Apolipoproteins, Artemin, BAFF, Betacellulin, Cardiotrophin-1, CRP, DKK-1, Endostatin, FGF Receptor

1, flt-3 Ligand, Follistatin, Galectins, Granzyme B, Heregulin, ICAMs, LIF, Maspin, Midkine, Myostatin, Nanog, Neuregulin, Neuroglobin, Neuroserpin, Neurotrophins, NOGGIN, Oncostatin M, OPG, Osteonectin, Osteopontin, PAI-1

& PAI-2, RANKL, RELM-beta, SCF, Selectins, TNF Receptors, TIE-1 & TIE-2, TIMP-1 & TIMP-2, TRAIL, VCAM-1, VEGF Receptors, Vaspin, Vitronectin, Visfatin, Wnt-1 and many more.

Please see [www.cytokines.info](http://www.cytokines.info) for a complete and up-to-date list.

PromoCell also offers a wide range of complementary Antibodies and ELISAs.  
Please see: [www.promocell.com/antibodies](http://www.promocell.com/antibodies) and [www.promocell.com/ELISAS](http://www.promocell.com/ELISAS)

## PromoCell provides a wide range of Cytokines and Growth Factors that are important e.g. in:

### ■ Cancer & Angiogenesis Research

e.g. Adiponectin, Activin, Angiopoietin, beta-NGF, Cardiotrophin/CT-1, CD40 Ligand/CD154, CNTF, CTGF, E-selectin, EG-VEGF, EGF & sEGF-R, ENA-78, EMAP-2, Endostatin, Fractalkine, G-CSF, GDNF, HB-EGF, HGF, IFN-gamma, IGF-1, IP-10, Leptin, NT-4, Oncostatin M, Osteonectin, PEDF, PF-4, PLGF, RANTES, Resistin, TGF-beta 1, TNF-alpha/TNF-beta & TNF-R, TWEAK & TWEAK-R, VAP-1, Vaspin, VCAM-1

→ as well as different BMPs, FGFs, GROs/CXCLs, Interleukins/Interleukin Receptors, MCPs/CCLs, MIPs, PDGFs and VEGFs

### ■ Dendritic Cell Research

e.g. CD40 Ligand/CD154, HGF, IFN-gamma, M-CSF, SCF, sRANKL, TNF-alpha

→ as well as different Interleukins

### ■ Adipokines

e.g. Adiponectin/Acrp30, Chemerin, IL-6 & IL-6R, Leptin, MCP-1/CCL2, PAI-1, RBP-4, RELM-alpha & RELM-beta, Resistin, TNF-alpha/TNF-beta & TNF-R, Visfatin

### ■ Neuroscience Research

e.g. Activin, Artemin, BDNF, beta-NGF, Cardiotrophin/CT-1, CNTF, CTGF, EGF & sEGF-R, Fractalkine, GDNF, GMF-beta, GRO-beta, HGF, I-309, IFN-gamma, IP-10, LIF, MANF, Neurtin, Neuroserpin, Neurturin, NNT, NT-3 & NT-4, Oncostatin M, PEDF, Persephin, Pleiotrophin, Prolactin & Prolactin-R, RANTES, SDF-1 alpha, TGF-beta 1, TNF-alpha/, TNF-beta & TNF-R, TWEAK/TWEAK-R

→ as well as different FGFs, Interleukins/Interleukin Receptors, MCPs/CCLs, and MIPs

### ■ Stem Cell Research

→ Mesenchymal Stem Cell Growth and Differentiation Factors

→ Cytokines & Growth Factors for General Propagation and Differentiation of Various Adult Stem Cell Types

→ Propagation of Undifferentiated Pluripotent Human Embryonic Stem Cells

→ Hematopoietic Stem Cell Research

→ General Embryonic Stem Cell Research

→ Cytokines & Growth Factors for Neural Stem Cell Media

→ Cell Reprogramming

e.g. Activin, Angiopoietin, BAFF, BDNF, beta-NGF, EGF & sEGF-R, EPO-alpha, flt-3 Ligand, Galectin-1, G-CSF, GM-CSF, Granzyme B, Heregulin, HGF, IFN-gamma, IGF-1 & IGF-2, KGF-1 & KGF-2, KLF4, LIF, LIN-28, Myostatin, Nanog, NOGGIN, Oncostatin M, p16-INK4a, PLGF, SCF, SDF-1 alpha, Sox-2, TARC/CCL17, TNF-alpha/TNF-beta & TNF-R, TPO, Vitronectin, WNT-1 & WNT-7a

→ as well as different BMPs, FGFs, GDFs, GROs/CXCLs, Interleukins/Interleukin Receptors, MCPs/CCLs, PDGFs, TGFs and VEGFs

### ■ Dermatology Research

e.g. G-CSF, GM-CSF, GRO-alpha, IFN-alpha/IFN-beta, IFN-gamma, IL-1, IL-2, IL-4, IL-5, IL-6, IL-8, IL-10, IL-12, IL-13, IL-15, IL-17, IL-18, IL-19, IL-20, IL-22, IL-24, IL-28, IL-29, IL-32, TNF-alpha, ICAM-1, MCP-1, MIP-1, PDGF, RANTES, TGF-alpha/

TGF-beta, VCAM-1

→ On the next two pages please find some examples of commonly used human Cytokines and Growth Factors we currently offer at a reduced price. Find more cytokines and growth factors and the respective product information at [www.cytokines.info](http://www.cytokines.info).

**Note:** Please consider that we have many more human, mouse and rat cytokines/growth factors in our extensive range of ~800 products for which you may [request your individual discount](#).

We can also provide very competitive pricing for [cytokine bulk sizes](#).

**REQUEST YOUR INDIVIDUAL DISCOUNT!**

Cat. No.	Product Name	Size
C-66626	Acrp30, human, (E. coli)	25 µg
C-66628	Acrp30, human, (HEK)	10 µg
C-60066	Activin A, human, (E. coli)	10 µg
C-63755	BAFF, human	20 µg
C-66212	BDNF, human	10 µg
C-66130	beta-NGF, human, (CHO)	20 µg
C-67310	BMP-2, human, (E. coli)	10 µg
C-67309	BMP-2, human, (HEK)	10 µg
C-67314	BMP-4, human, (E. coli)	10 µg
C-67313	BMP-4, human, (HEK)	10 µg
C-67319	BMP-7, human, (CHO)	10 µg
C-67318	BMP-7, human, (E. coli)	10 µg
D-67410	Cardiotrophin-1 (CT-1), mouse	10 µg
E-67410	Cardiotrophin-1 (CT-1), rat	10 µg
C-63100	CD40 Ligand (CD154), human	50 µg
D-63100	CD40 Ligand, mouse	25 µg
C-66210	CNTF, human	20 µg
D-66210	CNTF, mouse	25 µg
C-68017	CTGF, human, (HEK)	10 µg
C-60170	EGF, human, (E. coli)	500 µg
C-60182	EGF, human, (Pichia)	500 µg
D-60170	EGF, mouse	500 µg
C-64413	EG-VEGF, human	20 µg
C-68305	Endostatin, human	100 µg
C-60022	EPO-alpha, human, (CHO)	50 µg
C-60023	EPO-alpha, human, (HEK)	10 µg
C-69217	E-selectin (CD62E), human	10 µg
C-60340	FGF-1 (FGF-a), human, (E. coli)	50 µg
C-60343	FGF-1 (FGF-a), human, (Sf9)	10 µg
C-60240	FGF-2 (FGF-b), human, (E. coli)	50 µg
C-60242	FGF-2 (FGF-b), human, (HEK)	10 µg
D-60240	FGF-2 (FGF-b), mouse	50 µg
C-60243	FGF-2 (FGF-b, 147 aa), human	50 µg
C-67110	flt-3 Ligand, human, (E. coli)	10 µg
C-67114	flt-3 Ligand, human, (HEK)	10 µg
C-67113	flt-3 Ligand, human, (Sf9)	10 µg
D-67110	flt-3 Ligand, mouse	10 µg
C-60437	G-CSF, human, (CHO)	10 µg
C-60434	G-CSF, human, (E. coli)	10 µg
D-60431	G-CSF, mouse	10 µg
C-66312	GDNF, human, (E. coli)	10 µg
C-60420	GM-CSF, human, (E. coli)	10 µg
C-60423	GM-CSF, human, (Pichia)	10 µg
C-64532	HGF, human, (HEK)	10 µg
C-64530	HGF, human, (Sf9)	10 µg
C-60724	IFN-gamma, human, (E. coli)	100 µg
D-60724	IFN-gamma, mouse	100 µg
E-60730	IFN-gamma, rat	100 µg
C-60840	IGF-1, human, (E. coli)	100 µg
D-60840	IGF-1, mouse	50 µg
E-60840	IGF-1, rat	50 µg
C-61120	IL-1 beta, human, (E. coli)	10 µg
C-61121	IL-1 beta, human, (HEK)	10 µg
D-61122	IL-1 beta, mouse	10 µg

Cat. No.	Product Name	Size
E-61120	IL-1 beta, rat	10 µg
C-61240	IL-2, human, (E. coli)	50 µg
C-61241	IL-2, human, (HEK)	10 µg
D-61220	IL-2, mouse	20 µg
E-61220	IL-2, rat	20 µg
C-61320	IL-3, human, (E. coli)	10 µg
C-61321	IL-3, human, (HEK)	10 µg
D-61340	IL-3, mouse	10 µg
E-61320	IL-3, rat	20 µg
C-61450	IL-4, human, (CHO)	10 µg
C-61421	IL-4, human, (E. coli)	20 µg
C-61625	IL-6, human, (HEK)	20 µg
D-61632	IL-6, mouse	10 µg
E-61630	IL-6, rat	10 µg
C-61712	IL-7, human, (E. coli)	10 µg
C-61715	IL-7, human, (Yeast)	10 µg
D-61710	IL-7, mouse	10 µg
C-65520	IP-10 (CXCL10), human	25 µg
D-65340	IP-10 (CXCL10), mouse	25 µg
C-63820	KGF (FGF-7), human, (E. coli)	10 µg
C-63821	KGF (FGF-7), human, (HEK)	10 µg
D-63820	KGF (FGF-7), mouse	10 µg
C-68232	Leptin, human	1 mg
D-68230	Leptin, mouse	1 mg
D-60050	LIF, mouse, (E. coli)	10 µg
E-60050	LIF, rat	10 µg
C-68114	LIN-28, human	10 µg
C-65723	MCP-3 (CCL7), human	10 µg
D-65723	MCP-3 (CCL7), mouse	10 µg
C-60442	M-CSF, human, (E. coli)	10 µg
D-60442	M-CSF, mouse	10 µg
C-65920	Myostatin (GDF-8), human, (E. coli)	10 µg
C-66425	NT-3, human	10 µg
D-66425	NT-3, mouse,	10 µg
C-66426	NT-4, human	10 µg
C-64346	p16-INK4a, human	20 µg
C-64347	p16-INK4a-TAT, human	25 µg
C-63021	PDGF-AA, human, (E. coli)	10 µg
C-63028	PDGF-AA, human, (Pichia)	10 µg
D-63021	PDGF-AA, mouse	10 µg
C-63020	PDGF-AB, human	10 µg
C-63022	PDGF-BB, human, (E. coli)	10 µg
D-63022	PDGF-BB, mouse	10 µg
C-63031	PEDF, human, (HEK)	10 µg
D-65930	PF-4 (CXCL4), mouse	20 µg
C-66022	PLGF-1, human, (E. coli)	25 µg
C-66021	PLGF-1, human, (Sf9)	10 µg
C-66020	PLGF-2, human, (Sf9)	10 µg
D-66023	PLGF-2, mouse, (InC)	5 µg
E-66023	PLGF-2, rat, (InC)	5 µg
C-60035	Prolactin, human, (E. coli)	50 µg
D-60035	Prolactin, mouse	50 µg
E-60035	Prolactin, rat	50 µg
C-63200	RANKL, human, (E. coli)	10 µg

Cat. No.	Product Name	Size*
D-63200	RANKL, mouse	10 µg
C-64130	RANTES (CCL5), human	20 µg
D-64130	RANTES (CCL5), mouse	20 µg
C-66665	RELM beta, human	25 µg
C-66670	Resistin, human	25 µg
D-66670	Resistin, mouse	25 µg
E-66670	Resistin, rat	25 µg
C-63120	SCF, human, (E. coli)	10 µg
C-63125	SCF, human, (Sf9)	10 µg
D-63120	SCF, mouse, (E. coli)	10 µg
E-63120	SCF, rat	10 µg
C-67220	SDF-1 alpha (CXCL12), human	10 µg
D-67220	SDF-1 alpha (CXCL12), mouse	10 µg
C-68501	Sox-2-TAT, human	25 µg
C-63508	TGF-beta 3, human, (CHO)	10 µg
C-63507	TGF-beta 3, human, (E. coli)	10 µg
C-63509	TGF-beta 3, human, (HEK)	5 µg
C-63719	TNF-alpha, human, (E. coli)	50 µg

Cat. No.	Product Name	Size*
C-63718	TNF-alpha, human, (HEK)	10 µg
C-63721	TNF-alpha, human, (Yeast)	50 µg
D-63720	TNF-alpha, mouse, (E. coli)	20 µg
E-63720	TNF-alpha, rat	20 µg
C-63731	TNF-beta, human, (E. coli)	20 µg
C-63733	TNF-beta, human, (InC)	20 µg
C-65114	TPO, human, (CHO)	10 µg
C-65112	TPO, human, (E. coli)	10 µg
C-65115	TPO, human, (HEK)	10 µg
D-65112	TPO, mouse	10 µg
C-63610	TWEAK, human,	25 µg
C-60063	VCAM-1 (CD106), human	10 µg
C-64409	VEGF-121, human	10 µg
C-64420	VEGF-165, human	10 µg
D-64410	VEGF-165, mouse	10 µg
E-64411	VEGF-165, rat	10 µg
C-68330	Visfatin, human	25 µg
D-68330	Visfatin, mouse	25 µg

\*Note: Bulk sizes (100, 250, 500 & 1000 µg) of each item are available on request.

**REQUEST YOUR INDIVIDUAL DISCOUNT!**

## Endotoxin- and Animal-free Cytokines and Growth Factors

Please note that our animal-free cytokines and growth factors derived from plant cells are particularly well suited for stem cell and angiogenesis research as they have extremely low endotoxin levels (more than 20 times less as compared to proteins produced in E. coli) and are also free of any unwanted contamination derived from production in mammalian cell culture. Endotoxins are known to affect different cellular processes such as cell proliferation and cell differentiation leading to biased results.

Cat. No.	Product Name	Size*
C-67310A	BMP-2, human	10 µg
C-60169A	EGF, human	100 µg
C-67110A	flt-3 Ligand, human	10 µg
C-60434A	G-CSF, human	10 µg
C-66312A	GDNF, human	10 µg
C-60420A	GM-CSF, human	10 µg
C-60724A	IFN-gamma, human	100 µg
C-61240A	IL-2, human	50 µg
C-61330A	IL-3, human	10 µg

Cat. No.	Product Name	Size*
C-61420A	IL-4, human	10 µg
C-63820A	KGF (FGF-7), human	10 µg
C-60051A	LIF, human	50 µg
D-60051A	LIF, mouse	50 µg
C-60442A	M-CSF, human	10 µg
C-63120A	SCF, human	10 µg
D-63120A	SCF, mouse	10 µg
C-63720A	TNF-alpha, human	50 µg
C-64420A	VEGF-165, human	10 µg

\*Note: Bulk sizes (100, 250, 500 & 1000 µg) of each item are available on request.

PromoCell GmbH

Sickingenstr. 63/65  
69126 Heidelberg  
Germany

Email: [info@promocell.com](mailto:info@promocell.com)  
[www.promocell.com](http://www.promocell.com)

USA/Canada

Phone: 1 – 866 – 251 – 2860 (toll free)  
Fax: 1 – 866 – 827 – 9219 (toll free)

Deutschland

Telefon: 0800 – 776 66 23 (gebührenfrei)  
Fax: 0800 – 100 83 06 (gebührenfrei)

France

Téléphone: 0800 – 90 93 32 (ligne verte)  
Téléfax: 0800 – 90 27 36 (ligne verte)

United Kingdom

Phone: 0800 – 96 03 33 (toll free)  
Fax: 0800 – 169 85 54 (toll free)

Other Countries

Phone: +49 6221 – 649 34 0  
Fax: +49 6221 – 649 34 40

© PromoCell GmbH