



Miltenyi Biotec

MACS® Cytokines

Product list

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MACS[®] Cytokines

Product list

Miltenyi Biotec offers a broad portfolio of recombinant cytokines, growth factors, and related proteins. These high-quality products for human, mouse, and rat significantly extend our MACS[®] Cell Culture product line. MACS Cytokines are well-suited for various applications such as cell culture, differentiation studies, and biological assays. Selected products are available in a premium grade format for high, well-defined activity as well as in research grade quality.

Quality description

Research grade

Research grade is the standard quality for all our products. They are sterile-filtered and have passed an accurate quality control. Generally, endotoxin levels are below 0.1 ng/μg (< 1 EU/μg), and purities are higher than 95%. The biological activity has usually been tested employing appropriate bioassays, and a minimum activity is assured. Otherwise the ED₅₀ value is given.

Premium grade

For demanding applications, selected human cytokines and growth factors are available in premium grade quality having a particular high and well-defined biological activity. They have passed stringent quality control criteria, and the purity is higher than 97%.

The biological activity has been determined after lyophilization in direct comparison with the respective WHO standards. Certificates of analysis stating lot-specific biological activities are available on request. Furthermore, premium grade cytokines display the major characteristics of our line of GMP grade cytokines. Premium grade products are widely used, e.g., for the generation of dendritic cells and the cultivation of stem cells.

Cell culture grade

Cell culture grade cytokines and growth factors are lyophilized with DMEM/F12 and fetal bovine serum or human serum albumin. These products are well-suited for certain applications where the direct reconstitution with water is favorable, e.g., applications with small volumes and tests in 96-well plates.

Content

Human Cytokines & Growth Factors	4
Mouse Cytokines & Growth Factors	9
Rat Cytokines & Growth Factors	10
Accessories: MACS Basic Media	10

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Human Activin A, research grade	FRP	Recombinant human activin A	Insect cells	5 µg	130-093-805
Human BAFF, research grade	TNFSF13B, BLys	Recombinant human B cell activating factor belonging to the TNF family	<i>E. coli</i>	5 µg	130-093-806
			<i>E. coli</i>	20 µg	130-093-807
Human BD-2, research grade		Recombinant human β-defensin 2	<i>E. coli</i>	20 µg	130-093-809
Human BD-3, research grade		Recombinant human β-defensin 3	<i>E. coli</i>	5 µg	130-093-810
			<i>E. coli</i>	20 µg	130-094-615
Human BDNF, research grade		Recombinant human brain-derived neurotrophic factor	<i>E. coli</i>	10 µg	130-093-811
Human BMP-2, research grade		Recombinant human bone morphogenetic protein 2	<i>E. coli</i>	2 µg	130-093-814
			<i>E. coli</i>	10 µg	130-093-812
			<i>E. coli</i>	100 µg	130-094-616
Human BMP-6, research grade		Recombinant human bone morphogenetic protein 6	<i>E. coli</i>	2 µg	130-093-816
			<i>E. coli</i>	10 µg	130-093-817
Human BMP-7, research grade		Recombinant human bone morphogenetic protein 7	CHO cells	10 µg	130-093-818
Human Cardiotrophin-1, research grade	CT-1	Recombinant human cardiotrophin 1	<i>E. coli</i>	10 µg	130-093-820
Human CD22 – soluble, research grade	BL-CAM, SIGLEC-2	Recombinant soluble human CD22	CHO cells	20 µg	130-093-821
Human CD40-Ligand – soluble, research grade	TRAP, CD154, TNFSF5	Recombinant soluble human CD40 ligand	<i>E. coli</i>	10 µg	130-093-822
			<i>E. coli</i>	50 µg	130-093-823
			<i>E. coli</i>	1000 µg	130-094-617
Human CXCL16, research grade	SRPSOX	Recombinant human chemokine ligand CXCL16	<i>E. coli</i>	25 µg	130-093-824
Human EGF, research grade		Recombinant human epidermal growth factor	<i>E. coli</i>	100 µg	130-093-825
			<i>E. coli</i>	500 µg	130-093-826
			<i>E. coli</i>	1000 µg	130-093-827
Human EG-VEGF, research grade	Prokineticin 1	Recombinant human endocrine gland-derived vascular endothelial growth factor	<i>E. coli</i>	20 µg	130-093-829
Human Exodus 2, research grade	CCL21, SLC	Recombinant human exodus 2	<i>E. coli</i>	5 µg	130-093-833
			<i>E. coli</i>	20 µg	130-094-618
Human FGF-1, research grade	acidic FGF, HBGF-1	Recombinant human fibroblast growth factor 1	<i>E. coli</i>	10 µg	130-093-835
			<i>E. coli</i>	50 µg	130-093-836
Human FGF-2, research grade	basic FGF, HBGF-2	Recombinant human fibroblast growth factor 2	<i>E. coli</i>	10 µg	130-093-837
		<i>Biological activity:</i> ≥ 5×10 ⁵ IU/mg; proliferation of 3T3 cells (NIBSC 90/712)	<i>E. coli</i>	50 µg	130-093-838
Human FGF-2, premium grade	basic FGF, HBGF-2	Recombinant human fibroblast growth factor 2	<i>E. coli</i>	10 µg	130-093-839
		<i>Biological activity:</i> ≥ 8×10 ⁵ IU/mg; proliferation of 3T3 cells (NIBSC 90/712)	<i>E. coli</i>	50 µg	130-093-840
			<i>E. coli</i>	100 µg	130-093-564
			<i>E. coli</i>	200 µg	130-093-841
			<i>E. coli</i>	1000 µg	130-093-842
			<i>E. coli</i>	2000 µg	130-093-843
Human FGF-4, research grade	HBGF-4	Recombinant human fibroblast growth factor 4	<i>E. coli</i>	25 µg	130-093-845
Human FGF-5, research grade	HBGF-5	Recombinant human fibroblast growth factor 5	<i>E. coli</i>	50 µg	130-093-846
Human FGF-6, research grade	HBGF-6	Recombinant human fibroblast growth factor 6	<i>E. coli</i>	25 µg	130-093-847
Human FGF-7, research grade	KGF, HBGF-7	Recombinant human fibroblast growth factor 7	<i>E. coli</i>	2 µg	130-093-848
			<i>E. coli</i>	10 µg	130-093-849
Human FGF-10, research grade	KGF-2	Recombinant human fibroblast growth factor 10	<i>E. coli</i>	25 µg	130-093-850

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Human Flt3-Ligand, research grade		Recombinant human Flt3 ligand	<i>E. coli</i>	2 µg	130-093-853
			<i>E. coli</i>	10 µg	130-093-854
			<i>E. coli</i>	100 µg	130-093-855
			<i>E. coli</i>	1000 µg	130-093-856
Human Galectin 1, research grade		Recombinant human galectin 1	<i>E. coli</i>	50 µg	130-093-857
Human Galectin-3, research grade		Recombinant human galectin 3	<i>E. coli</i>	50 µg	130-093-858
Human G-CSF, premium grade		Recombinant human granulocyte colony-stimulating factor	<i>E. coli</i>	10 µg	130-093-860
			<i>E. coli</i>	100 µg	130-093-861
			<i>E. coli</i>	1000 µg	130-094-265
Human GM-CSF, research grade		Recombinant human granulocyte macrophage-colony-stimulating factor	<i>E. coli</i>	10 µg	130-093-862
			<i>Biological activity: ≥ 2×10⁶ IU/mg ; proliferation of TF-1 cells (NIBSC 88/646)</i>		
Human GM-CSF, premium grade		Recombinant human granulocyte macrophage colony-stimulating factor	<i>E. coli</i>	10 µg	130-093-864
			<i>E. coli</i>	50 µg	130-093-865
			<i>E. coli</i>	100 µg	130-093-866
			<i>E. coli</i>	500 µg	130-093-867
			<i>E. coli</i>	1000 µg	130-093-868
Human GRO-α, research grade	CXCL1, MGSAα	Recombinant human growth regulated oncogene α	<i>E. coli</i>	5 µg	130-094-620
			<i>E. coli</i>	25 µg	130-093-869
Human GRO-β, research grade	CXCL2, MGSAβ, MIP-2α	Recombinant human growth regulated oncogene β	<i>E. coli</i>	2 µg	130-093-870
			<i>E. coli</i>	10 µg	130-094-621
Human HGF, research grade	HPTA, SF	Recombinant human hepatocyte growth factor	Insect cells	5 µg	130-093-871
			Insect cells	25 µg	130-093-872
Human IFN-α2a, research grade		Recombinant human interferon α2a	<i>E. coli</i>	20 µg	130-093-873
			<i>E. coli</i>	100 µg	130-093-874
Human IFN-α2b, research grade		Recombinant human interferon α2b	<i>E. coli</i>	20 µg	130-093-875
			<i>E. coli</i>	100 µg	130-093-876
Human IFN-β (natural), research grade		Human interferon β	Human fibroblasts	15 µg	130-093-879
Human IFN-β1a, research grade		Recombinant human interferon β1a	CHO cells	2 µg	130-094-116
			CHO cells	10 µg	130-093-877
Human IFN-β1b, research grade		Recombinant human interferon β1b	<i>E. coli</i>	2 µg	130-093-878
			<i>E. coli</i>	10 µg	130-094-619
Human IFN-γ, research grade		Recombinant human interferon γ	<i>E. coli</i>	50 µg	130-093-880
			<i>E. coli</i>	100 µg	130-093-882
			<i>E. coli</i>	1000 µg	130-093-883
Human IGF-1, research grade	IGF-I	Recombinant human insulin-like growth factor 1	<i>E. coli</i>	50 µg	130-093-885
			<i>E. coli</i>	100 µg	130-093-886
			<i>E. coli</i>	1000 µg	130-093-887
Human IGF-2, research grade	IGF-II	Recombinant human insulin-like growth factor 2	<i>E. coli</i>	10 µg	130-093-888
			<i>E. coli</i>	50 µg	130-093-889
			<i>E. coli</i>	1000 µg	130-093-890
Human IGF-BP3, research grade	IBP-3	Recombinant human IGF-binding protein 3	<i>E. coli</i>	25 µg	130-093-891
Human IGF-BP5, research grade	IBP-5	Recombinant human IGF-binding protein 5	<i>E. coli</i>	25 µg	130-093-892
Human IL-1α, research grade		Recombinant human interleukin 1α	<i>E. coli</i>	2 µg	130-093-893
			<i>E. coli</i>	10 µg	130-093-894

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Human IL-1 β , research grade		Recombinant human interleukin 1 β	<i>E. coli</i>	10 μ g	130-093-895
		<i>Biological activity:</i> $\geq 1 \times 10^7$ IU/mg; proliferation of D10.G4.1 cells (NIBSC 86/680)	<i>E. coli</i>	1000 μ g	130-093-896
Human IL-1 β , premium grade		Recombinant human interleukin 1 β	<i>E. coli</i>	10 μ g	130-093-897
		<i>Biological activity:</i> $\geq 3 \times 10^7$ IU/mg; proliferation of D10.G4.1 cells (NIBSC 86/680)	<i>E. coli</i>	25 μ g	130-093-563
			<i>E. coli</i>	100 μ g	130-093-898
			<i>E. coli</i>	1000 μ g	130-093-899
Human IL-1ra, research grade		Recombinant human interleukin 1 receptor antagonist	<i>E. coli</i>	10 μ g	130-093-900
Human IL-2, research grade		Recombinant human interleukin 2	<i>E. coli</i>	5 μ g	130-093-901
			<i>E. coli</i>	50 μ g	130-093-903
Human IL-2 (v126), research grade	aldesleukin	Recombinant human interleukin 2 (variant in position 126)	<i>E. coli</i>	5 μ g	130-093-906
			<i>E. coli</i>	50 μ g	130-093-907
			<i>E. coli</i>	1000 μ g	130-094-622
Human IL-3, premium grade		Recombinant human interleukin 3	<i>E. coli</i>	10 μ g	NEW 130-095-071
		<i>Biological activity:</i> $\geq 2 \times 10^6$ IU/mg; proliferation of TF-1 cells (NIBSC 91/510)	<i>E. coli</i>	25 μ g	NEW 130-095-070
			<i>E. coli</i>	100 μ g	NEW 130-095-069
			<i>E. coli</i>	1000 μ g	NEW 130-095-068
Human IL-3, research grade		Recombinant human interleukin 3	<i>E. coli</i>	10 μ g	130-093-908
		<i>Biological activity:</i> $\geq 1 \times 10^6$ IU/mg; proliferation of TF-1 cells (NIBSC 91/510)	<i>E. coli</i>	25 μ g	130-093-909
			<i>E. coli</i>	4 \times 25 μ g	130-094-193
Human IL-4, research grade		Recombinant human interleukin 4	<i>E. coli</i>	2 μ g	130-093-914
		<i>Biological activity:</i> $\geq 2 \times 10^6$ IU/mg; proliferation of TF-1 cells (NIBSC 88/656)	<i>E. coli</i>	5 μ g	130-093-915
			<i>E. coli</i>	25 μ g	130-093-917
			<i>E. coli</i>	100 μ g	130-094-117
Human IL-4, cell culture grade		Recombinant human interleukin 4	<i>E. coli</i>	~ 5 μ g	130-093-918
		<i>Biological activity:</i> $\geq 5 \times 10^6$ IU/mg; proliferation of TF-1 cells (NIBSC 88/656)			
Human IL-4, premium grade		Recombinant human interleukin 4	<i>E. coli</i>	5 μ g	130-093-919
		<i>Biological activity:</i> $\geq 5 \times 10^6$ IU/mg; proliferation of TF-1 cells (NIBSC 88/656)	<i>E. coli</i>	10 μ g	130-093-920
			<i>E. coli</i>	25 μ g	130-093-921
			<i>E. coli</i>	100 μ g	130-093-922
			<i>E. coli</i>	1000 μ g	130-093-924
Human IL-5, research grade		Recombinant human interleukin 5	<i>E. coli</i>	2 μ g	130-093-926
			<i>E. coli</i>	10 μ g	130-093-927
Human IL-6, research grade		Recombinant human interleukin 6	<i>E. coli</i>	5 μ g	130-093-928
		<i>Biological activity:</i> $\geq 2 \times 10^7$ IU/mg; proliferation of B9 hybridoma cells (NIBSC 89/548)	<i>E. coli</i>	25 μ g	130-093-929
Human IL-6, premium grade		Recombinant human interleukin 6	<i>E. coli</i>	25 μ g	130-093-931
		<i>Biological activity:</i> $\geq 5 \times 10^7$ IU/mg; proliferation of B9 hybridoma cells (NIBSC 89/548)	<i>E. coli</i>	100 μ g	130-093-932
			<i>E. coli</i>	500 μ g	130-093-933
			<i>E. coli</i>	1000 μ g	130-093-934
Human IL-7, research grade		Recombinant human interleukin 7	<i>E. coli</i>	2 μ g	130-093-936
			<i>E. coli</i>	10 μ g	130-093-937
			<i>E. coli</i>	100 μ g	130-093-939
			<i>E. coli</i>	1000 μ g	130-093-940
Human IL-8 (72 aa), research grade	CXCL8	Recombinant human interleukin 8	<i>E. coli</i>	5 μ g	130-093-942
			<i>E. coli</i>	25 μ g	130-093-943
Human IL-8 (77 aa), research grade	CXCL8	Recombinant human interleukin 8	<i>E. coli</i>	25 μ g	130-093-944

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Human IL-9, research grade		Recombinant human interleukin 9	<i>E. coli</i>	2 µg	130-093-945
			<i>E. coli</i>	10 µg	130-093-946
Human IL-10, research grade		Recombinant human interleukin 10	<i>E. coli</i>	2 µg	130-093-947
			<i>E. coli</i>	10 µg	130-093-948
Human IL-10, research grade		Recombinant human interleukin 10	CHO cells	10 µg	130-093-949
Human IL-11, research grade		Recombinant human interleukin 11	<i>E. coli</i>	2 µg	130-094-623
			<i>E. coli</i>	10 µg	130-093-950
Human IL-12, research grade		Recombinant human interleukin 12	CHO cells	2 µg	130-093-951
			CHO cells	10 µg	130-093-952
			CHO cells	100 µg	130-094-624
Human IL-13, research grade		Recombinant human interleukin 13	<i>E. coli</i>	2 µg	130-093-953
			<i>E. coli</i>	10 µg	130-093-954
Human IL-15, research grade		Recombinant human interleukin 15	<i>E. coli</i>	10 µg	130-093-955
			<i>E. coli</i>	100 µg	130-093-956
			<i>E. coli</i>	1000 µg	130-093-957
Human IL-17, research grade	IL-17A	Recombinant human interleukin 17	<i>E. coli</i>	5 µg	130-093-958
			<i>E. coli</i>	25 µg	130-093-959
			<i>E. coli</i>	100 µg	130-094-625
Human IL-19, research grade		Recombinant human interleukin 19	<i>E. coli</i>	2 µg	130-094-626
			<i>E. coli</i>	10 µg	130-093-960
Human IL-21, research grade		Recombinant human interleukin 21	<i>E. coli</i>	2 µg	130-094-565
			<i>E. coli</i>	10 µg	130-094-563
			<i>E. coli</i>	100 µg	130-094-627
Human MCP-1, research grade	CCL2, MCAF	Recombinant human monocyte chemotactic protein 1	<i>E. coli</i>	5 µg	130-093-961
			<i>E. coli</i>	20 µg	130-093-962
Human M-CSF, research grade		Recombinant human macrophage colony-stimulating factor	<i>E. coli</i>	10 µg	130-093-963
			<i>E. coli</i>	500 µg	130-093-964
			<i>E. coli</i>	1000 µg	130-094-628
Human MIP-3α, research grade	CCL20, Exodus 1	Recombinant human macrophage inflammatory protein 3α	<i>E. coli</i>	20 µg	130-093-966
Human MIP-3β, research grade	CCL19, ELC Exodus 3	Recombinant human macrophage inflammatory protein 3β	<i>E. coli</i>	5 µg	130-093-967
			<i>E. coli</i>	20 µg	130-093-968
			<i>E. coli</i>	100 µg	130-093-969
Human NGF-β, research grade	β-NGF	Recombinant human nerve growth factor β	CHO cells	5 µg	130-093-971
			CHO cells	20 µg	130-093-972
Human NT-3, research grade	NTF-3, HDNF	Recombinant human neurotrophin 3	<i>E. coli</i>	10 µg	130-093-973
Human NT-4, research grade	NTF-4	Recombinant human neurotrophin 4	<i>E. coli</i>	10 µg	130-093-974
Human Oncostatin M, research grade	OSM	Recombinant human oncostatin M	<i>E. coli</i>	2 µg	130-093-975
			<i>E. coli</i>	10 µg	130-093-976
Human OPG, research grade	TNFRSF11B, TR1	Recombinant soluble human osteoprotegerin	Yeast	50 µg	130-094-119
Human PDGF-AA, research grade		Recombinant human platelet-derived growth factor AA	<i>E. coli</i>	2 µg	130-093-977
			<i>E. coli</i>	10 µg	130-093-978
Human PDGF-AB, research grade		Recombinant human platelet-derived growth factor AB	<i>E. coli</i>	2 µg	130-094-629
			<i>E. coli</i>	10 µg	130-093-979
Human PDGF-BB, research grade		Recombinant human platelet-derived growth factor BB	<i>E. coli</i>	2 µg	130-093-980
			<i>E. coli</i>	10 µg	130-093-982
			<i>E. coli</i>	100 µg	130-094-630
Human PDGF-BB, research grade		Recombinant human platelet-derived growth factor BB	Yeast	2 µg	130-093-981
			Yeast	10 µg	130-093-983
			Yeast	50 µg	130-093-984

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Human Prolactin, research grade	Mammo-tropin	Recombinant human prolactin	<i>E. coli</i>	50 µg	130-093-985
Human RANK-Ligand - soluble, research grade	TNFSF11, TRANCE, ODF	Recombinant soluble human receptor acitvator of NF-κB ligand	<i>E. coli</i>	2 µg	130-093-987
			<i>E. coli</i>	10 µg	130-093-988
			<i>E. coli</i>	100 µg	130-094-631
Human RANTES, research grade	CCL5	Recombinant human RANTES	<i>E. coli</i>	5 µg	130-093-989
			<i>E. coli</i>	20 µg	130-094-632
Human SCF, research grade	c-kit ligand, steel factor, MGF	Recombinant human stem cell factor	<i>E. coli</i>	2 µg	130-093-990
			<i>E. coli</i>	10 µg	130-093-991
			<i>E. coli</i>	50 µg	130-093-992
			<i>E. coli</i>	100 µg	130-093-993
			<i>E. coli</i>	1000 µg	130-094-303
Human SCGF-α, research grade		Recombinant human stem cell growth factor α	<i>E. coli</i>	10 µg	130-093-994
Human SCGF-β, research grade		Recombinant human stem cell growth factor β	<i>E. coli</i>	10 µg	130-093-995
Human SDF-1α, research grade	CXCL12	Recombinant human stromal cell-derived factor 1α	<i>E. coli</i>	10 µg	130-093-996
			<i>E. coli</i>	100 µg	130-093-997
			<i>E. coli</i>	1000 µg	130-093-998
Human TARC, research grade	CCL17	Recombinant human thymus and activation-regulated chemokine	<i>E. coli</i>	20 µg	130-093-999
Human TGF-α, research grade		Recombinant human transforming growth factor α	<i>E. coli</i>	100 µg	130-094-000
Human TGF-β1, premium grade		Recombinant human transforming growth factor β1 <i>Biological activity:</i> ≥ 5×10 ⁶ U/mg; inhibition of IL-5 induced TF-1 cells (NIBSC 89/514)	HEK293 cells	5 µg	NEW 130-095-067
Human TGF-β2, research grade		Recombinant human transforming growth factor β2	Insect cells	1 µg	130-094-004
			Insect cells	5 µg	130-094-005
Human TGF-β3, research grade		Recombinant human transforming growth factor β3	<i>E. coli</i>	1 µg, liquid	130-094-006
			<i>E. coli</i>	5 µg, liquid	130-094-007
			<i>E. coli</i>	20 µg, liquid	130-094-008
Human TNF-α, research grade	TNFSF2	Recombinant human tumor necrosis factor α <i>Biological activity:</i> ≥ 2×10 ⁷ IU/mg; inhibition of L-929 cells (NIBSC 88/786)	Yeast	10 µg	130-094-015
			Yeast	50 µg	130-094-017
			Yeast	100 µg	130-094-018
			Yeast	750 µg	130-094-019
			Yeast	1000 µg	130-094-020
Human TNF-α, premium grade	TNFSF2	Recombinant human tumor necrosis factor α <i>Biological activity:</i> ≥ 4×10 ⁷ IU/mg; inhibition of L-929 cells (NIBSC 88/786)	Yeast	10 µg	130-094-022
			Yeast	50 µg	130-094-023
			Yeast	100 µg	130-094-024
			Yeast	1000 µg	130-094-562
Human TNF-α, premium grade	TNFSF2	Recombinant human tumor necrosis factor α <i>Biological activity:</i> ≥ 4×10 ⁷ IU/mg; inhibition of L-929 cells (NIBSC 88/786)	<i>E. coli</i>	10 µg	130-094-014
Human TPO, research grade	MDGF	Recombinant human thrombopoietin	<i>E. coli</i>	2 µg	130-094-010
			<i>E. coli</i>	10 µg	130-094-011
			<i>E. coli</i>	100 µg	130-094-013
Human TPO, research grade	MDGF	Recombinant human thrombopoietin	CHO cells	10 µg	130-094-012
Human TRAIL, research grade	Apo2L, TNFSF10	Recombinant human TNF-related apoptosis inducing ligand	<i>E. coli</i>	10 µg	130-094-025
			<i>E. coli</i>	50 µg	130-094-026
Human TRAIL Receptor-1 – soluble, research grade	DR4, TNFRSF10A	Recombinant soluble human TNF-related apoptosis inducing ligand receptor 1	<i>E. coli</i>	20 µg	130-094-027
			<i>E. coli</i>	50 µg	130-094-352

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Human TRAIL Receptor-2 – soluble, research grade	DR5, TNFRSF10B	Recombinant soluble human TNF-related apoptosis inducing ligand receptor 2	<i>E. coli</i>	20 µg	130-094-028
			<i>E. coli</i>	50 µg	130-094-353
Human VEGF (121 aa), research grade		Recombinant human vascular endothelial growth factor	Insect cells	5 µg	130-094-029
			Insect cells	100 µg	130-094-030
Human VEGF (165 aa), research grade		Recombinant human vascular endothelial growth factor	Insect cells	5 µg	130-094-031
			Insect cells	20 µg	130-094-033
			Insect cells	100 µg	130-094-034
			Insect cells	500 µg	130-094-035

Mouse Cytokines & Growth Factors

Mouse EGF		Recombinant mouse epidermal growth factor	<i>E. coli</i>	100 µg	130-094-036
			<i>E. coli</i>	500 µg	130-094-037
Mouse Flt3-Ligand		Recombinant mouse Flt3-Ligand	<i>E. coli</i>	10 µg	130-094-038
			<i>E. coli</i>	1000 µg	130-094-568
Mouse G-CSF		Recombinant mouse granulocyte colony-stimulating factor	<i>E. coli</i>	2 µg	130-094-039
			<i>E. coli</i>	10 µg	130-094-040
			<i>E. coli</i>	100 µg	130-094-041
Mouse GM-CSF		Recombinant mouse granulocyte macrophage colony-stimulating factor	<i>E. coli</i>	2 µg	130-094-042
			<i>E. coli</i>	10 µg	130-094-043
			<i>E. coli</i>	100 µg	130-094-044
Mouse Gro-α/KC	CXCL1	Recombinant human growth regulated oncogene α	<i>E. coli</i>	5 µg	130-094-045
			<i>E. coli</i>	20 µg	130-094-046
Mouse IFN-α		Recombinant mouse interferon α	HEK293 cells	200 µL, liquid	130-093-131
			HEK293 cells	1 mL, liquid	130-093-130
Mouse IFN-γ		Recombinant mouse interferon γ	<i>E. coli</i>	20 µg	130-094-047
			<i>E. coli</i>	100 µg	130-094-048
			<i>E. coli</i>	1000 µg	130-094-049
Mouse IL-1α		Recombinant mouse interleukin 1α	<i>E. coli</i>	2 µg	130-094-050
			<i>E. coli</i>	10 µg	130-094-051
Mouse IL-1β		Recombinant mouse interleukin 1β	<i>E. coli</i>	2 µg	130-094-052
			<i>E. coli</i>	10 µg	130-094-053
Mouse IL-2		Recombinant mouse interleukin 2	<i>E. coli</i>	5 µg	130-094-054
			<i>E. coli</i>	20 µg	130-094-055
Mouse IL-3		Recombinant mouse interleukin 3	<i>E. coli</i>	2 µg	130-094-056
			<i>E. coli</i>	10 µg	130-094-057
			<i>E. coli</i>	100 µg	130-094-633
			<i>E. coli</i>	1000 µg	130-094-661
Mouse IL-4		Recombinant mouse interleukin 4	<i>E. coli</i>	2 µg	130-094-060
			<i>E. coli</i>	10 µg	130-094-061
			<i>E. coli</i>	100 µg	130-094-063
			<i>E. coli</i>	1000 µg	130-094-064
Mouse IL-6		Recombinant mouse interleukin 6	<i>E. coli</i>	2 µg	130-094-634
			<i>E. coli</i>	10 µg	130-094-065
			<i>E. coli</i>	100 µg	130-094-635
Mouse IL-7		Recombinant mouse interleukin 7	<i>E. coli</i>	2 µg	130-094-636
			<i>E. coli</i>	10 µg	130-094-066
Mouse IL-10		Recombinant mouse interleukin 10	<i>E. coli</i>	2 µg	130-094-067
			<i>E. coli</i>	10 µg	130-094-068

Product name	Alternative names	Product description	Source	Packing unit	Order no.
Mouse IL-13		Recombinant mouse interleukin 13	<i>E. coli</i>	2 µg	130-094-639
			<i>E. coli</i>	10 µg	130-094-070
Mouse IL-15		Recombinant mouse interleukin 15	<i>E. coli</i>	2 µg	130-094-071
			<i>E. coli</i>	10 µg	130-094-072
			<i>E. coli</i>	100 µg	130-094-640
Mouse IP-10	CXCL10	Recombinant mouse interferon inducible protein 10	<i>E. coli</i>	5 µg	130-094-073
			<i>E. coli</i>	25 µg	130-094-641
Mouse M-CSF		Recombinant mouse macrophage colony-stimulating factor	<i>E. coli</i>	2 µg	130-094-642
			<i>E. coli</i>	10 µg	130-094-129
			<i>E. coli</i>	100 µg	130-094-643
Mouse MIG	CXCL9	Recombinant mouse monokine induced by interferon γ	<i>E. coli</i>	5 µg	130-094-644
			<i>E. coli</i>	20 µg	130-094-128
Mouse MIP-3β	CCL19, ELC Exodus 3	Recombinant mouse macrophage inflammatory protein 3β	<i>E. coli</i>	5 µg	130-094-120
			<i>E. coli</i>	20 µg	130-094-074
			<i>E. coli</i>	100 µg	130-094-075
Mouse RANK-Ligand – soluble	TNFSF11	Recombinant soluble mouse receptor activator of NF-κB ligand	<i>E. coli</i>	2 µg	130-094-645
			<i>E. coli</i>	10 µg	130-094-076
			<i>E. coli</i>	100 µg	130-094-646
Mouse RANTES	CCL5	Recombinant mouse RANTES	<i>E. coli</i>	20 µg	130-094-077
Mouse SCF	c-kit ligand, steel factor, MGF	Recombinant mouse stem cell factor	<i>E. coli</i>	2 µg	130-094-078
			<i>E. coli</i>	10 µg	130-094-079
			<i>E. coli</i>	100 µg	130-094-080
Mouse SDF-1α	CXCL12	Recombinant mouse stromal cell-derived factor 1α	<i>E. coli</i>	2 µg	130-094-081
			<i>E. coli</i>	10 µg	130-094-647
Mouse TNF-α	TNFSF2	Recombinant mouse tumor necrosis factor α	Streptomyces	5 µg	130-094-084
			Streptomyces	20 µg	130-094-085
Mouse TPO	MDGF	Recombinant mouse thrombopoietin	<i>E. coli</i>	2 µg	130-094-082
			<i>E. coli</i>	10 µg	130-094-083
Mouse VEGF (164 aa)		Recombinant mouse vascular endothelial growth factor	Insect cells	5 µg	130-094-086
			Insect cells	20 µg	130-094-087

Rat Cytokine & Growth Factors

Rat IFN-γ		Recombinant rat interferon γ	<i>E. coli</i>	100 µg	130-094-089
Rat IL-2		Recombinant rat interleukin 2	<i>E. coli</i>	5 µg	130-094-121
			<i>E. coli</i>	20 µg	130-094-090
Rat IL-4		Recombinant rat interleukin 4	<i>E. coli</i>	2 µg	130-094-091
			<i>E. coli</i>	10 µg	130-094-122
Rat VEGF-C		Recombinant rat vascular endothelial growth factor	Insect cells	10 µg	130-094-092
Rat VEGF-C (C152S)		Recombinant rat vascular endothelial growth factor (Cys152Ser substitution)	Insect cells	5 µg	130-094-093

Accessories: MACS Basic Media

DMEM				500 mL	130-091-437
DMEM with stable glutamine				500 mL	130-091-438
RPMI 1640				500 mL	130-091-440
RPMI 1640 with stable glutamine				500 mL	130-091-439



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