



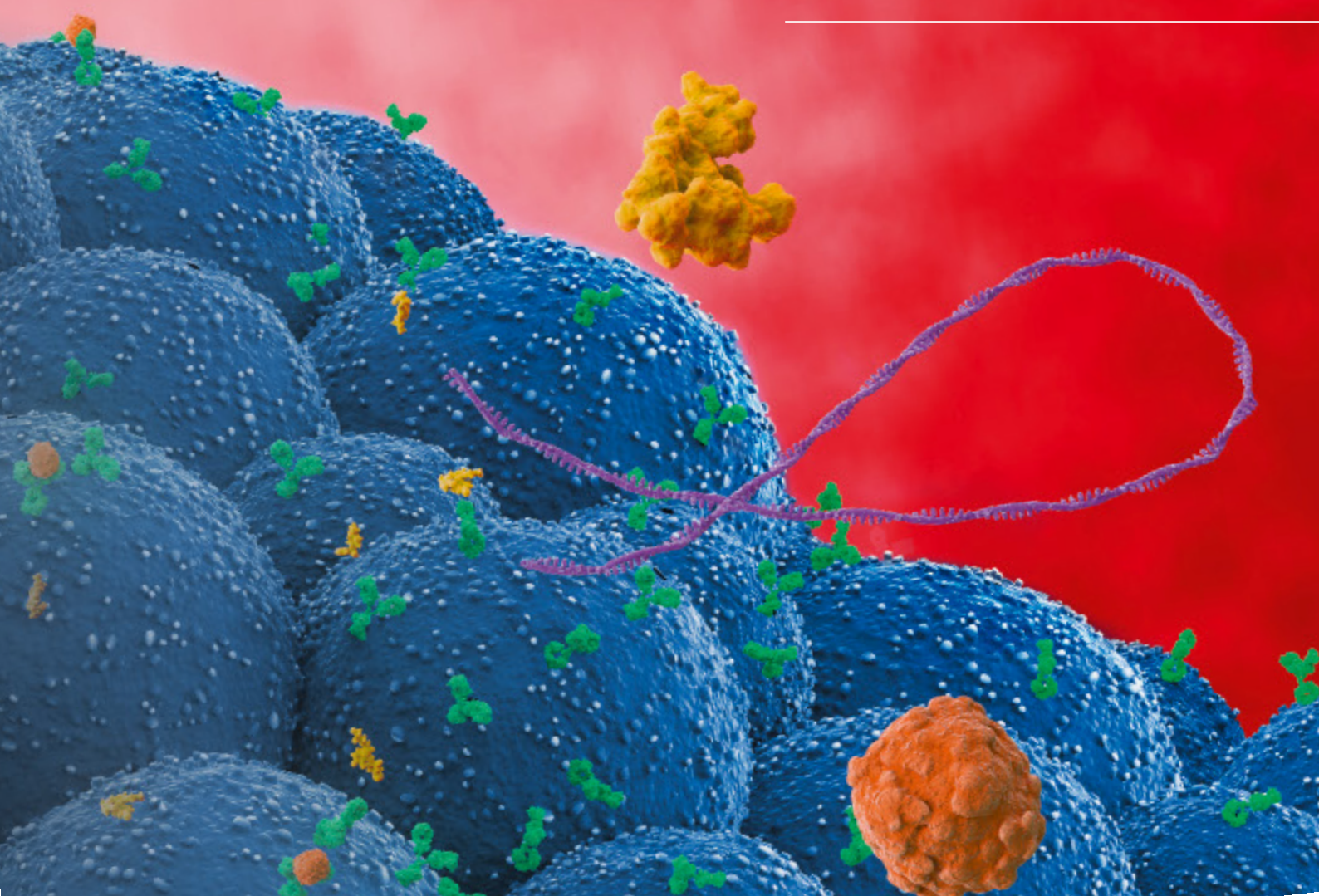
Miltenyi Biotec

Cell culture reagents for your stem cell research

MACS® Premium-Grade
Cytokines

StemMACS™ Small Molecules

MACS® Media



Cell culture is key for efficient and reliable research

Cell culture is a crucial part of stem cell research. Using standardized and proven reagents guarantees optimal culture conditions. Miltenyi Biotec's cell culture and stimulation portfolio offers a specialized and versatile range of cell culture media and reagents for the expansion and differentiation of various multi- and pluripotent stem cells.



Cell culture media

- Serum-free composition
- Specialty media for primary cells
- High-quality growth factors



MACS® Premium-Grade Cytokines

- Lot-specific activity
- High reproducibility
- Flexible custom production



StemMACS™ Small Molecules

- Chemically defined
- Highly pure
- Ready-to-use in solution

Selected products for your stem cell culture

PSC maintenance

Product	Quantity	Order no.
Human TGF- β 1, premium grade*	5 μ g	130-095-067
	25 μ g	130-095-066
	100 μ g	130-108-969
Human FGF-2, premium grade*	10 μ g	130-093-839
	50 μ g	130-093-840
	100 μ g	130-093-564
Mouse LIF, premium grade	10 μ g	130-095-777
	25 μ g	130-095-778
	100 μ g	130-095-779
StemMACS™ Thiazovivin	1 mg	130-104-461
	0.5 mg (liquid)	130-106-542
StemMACS Y27632	2 mg	130-103-922
	5 \times 2 mg	130-104-169
	2 mg (liquid)	130-106-538
StemMACS Trilineage Differentiation Kit, human	for 12 assays	130-115-660
StemMACS iPS-Brew XF, human*	500 mL	130-104-368

Cardiovascular differentiation from PSCs

Product	Quantity	Order no.
Human BMP-4, premium grade	10 μ g	130-111-164
	25 μ g	130-111-167
	100 μ g	130-111-165
Human Activin A, premium grade*	10 μ g	130-115-008
	25 μ g	130-115-009
	100 μ g	130-115-010
Human FGF-2, premium grade*	10 μ g	130-093-839
	50 μ g	130-093-840
	100 μ g	130-093-564
StemMACS IWP-2	2 mg	130-105-335
StemMACS IWP-4	2 mg	130-110-488
StemMACS IWR-1-endo	5 mg	130-110-491
StemMACS CardioDiff Kit XF, human	for 48 assays	130-125-289
StemMACS Cardiac Cultiva- tion Medium XF, human	500 mL	130-125-287

SAMPLE REQUEST



Request a sample at

► [miltenyibiotec.com/mediacytokinesample](https://www.miltenyibiotec.com/mediacytokinesample)

Hepatic differentiation from PSCs

Product	Quantity	Order no.
Human Activin A, premium grade*	10 μ g	130-115-008
	25 μ g	130-115-009
	100 μ g	130-115-010
Human HGF, research grade	5 μ g	130-093-871
	25 μ g	130-093-872
	100 μ g	130-103-437
Human FGF-10, research grade	25 μ g	130-093-850
	100 μ g	130-108-973
Human FGF-4, premium grade	10 μ g	130-109-389
	25 μ g	130-109-390
	100 μ g	130-109-394
Human EGF, premium grade*	100 μ g	130-097-749
	500 μ g	130-097-750
StemMACS CHIR99021	2 mg	130-103-926
	5 \times 2 mg	130-104-172
	2 mg (liquid)	130-106-539
StemMACS Retinoic Acid	50 mg	130-117-339
StemMACS SB431542	5 mg	130-105-336
	2 \times 5 mg	130-106-275
	5 mg (liquid)	130-106-543
StemMACS DiffBase XF, human	500 mL	130-126-015

Pancreatic differentiation from PSCs

Product	Quantity	Order no.
Human Activin A, premium grade*	10 μ g	130-115-008
	25 μ g	130-115-009
	100 μ g	130-115-010
Human Noggin, research grade	5 μ g	130-103-454
	20 μ g	130-103-455
	100 μ g	130-103-456
Human FGF-7, premium grade	10 μ g	130-097-173
	25 μ g	130-097-178
	100 μ g	130-097-176
Human FGF-2, premium grade*	10 μ g	130-093-839
	50 μ g	130-093-840
	100 μ g	130-093-564
Human BMP-4, premium grade	10 μ g	130-111-164
	25 μ g	130-111-167
	100 μ g	130-111-165
Human EGF, premium grade*	100 μ g	130-097-749
	500 μ g	130-097-750
StemMACS CHIR99021	2 mg	130-103-926
	5 \times 2 mg	130-104-172
	2 mg (liquid)	130-106-539
StemMACS TPPB	1 mg	130-117-338
StemMACS Retinoic Acid	50 mg	130-117-339
StemMACS DiffBase XF, human	500 mL	130-126-015

Intestinal cell differentiation from PSCs

Product	Quantity	Order no.
Human Activin A, premium grade*	10 µg	130-115-008
	25 µg	130-115-009
	100 µg	130-115-010
Human FGF-4, premium grade	10 µg	130-109-389
	25 µg	130-109-390
	100 µg	130-109-394
Human R-Spondin 1, research grade	5 µg	130-105-799
	20 µg	130-105-800
	100 µg	130-108-978
	500 µg	130-114-824
Human R-Spondin 2, research grade	5 µg	130-105-803
	20 µg	130-105-802
Human R-Spondin 3, research grade	5 µg	130-105-801
	20 µg	130-105-804
Human Noggin, research grade	5 µg	130-103-454
	20 µg	130-103-455
	100 µg	130-103-456
Human EGF, premium grade*	100 µg	130-097-749
	500 µg	130-097-750
StemMACS™ CHIR99021	2 mg	130-103-926
	5x2 mg	130-104-172
	2 mg (liquid)	130-106-539
StemMACS DiffBase XF, human	500 mL	130-126-015

Neural differentiation from PSCs

Product	Quantity	Order no.
Human FGF-8b, premium grade	10 µg	130-095-737
	25 µg	130-095-738
	100 µg	130-095-740
Human NGF-β, research grade	5 µg	130-093-971
	20 µg	130-093-972
	100 µg	130-103-441
Human BDNF, research grade	2 µg	130-096-285
	10 µg	130-093-811
	100 µg	130-096-286
Human CNTF, research grade	5 µg	130-096-337
	20 µg	130-096-336
	100 µg	130-108-972
Human SHH (C24II), premium grade	10 µg	130-095-721
	25 µg	130-095-723
	100 µg	130-095-727
StemMACS SB431542	5 mg	130-105-336
	2x5 mg	130-106-275
	5 mg (liquid)	130-106-543
StemMACS LDN-193189	2 mg	130-103-925
	5x2 mg	130-104-171
	2 mg (liquid)	130-106-540
MACS NeuroBrew®-21	10 mL	130-093-566
	10 mL (w/o Vitamin A)	130-097-263
MACS Neuro Medium	500 mL	130-093-570
StemMACS DiffBase XF, human	500 mL	130-126-015

HSC expansion and differentiation

Product	Quantity	Order no.
Human SCF, premium grade*	10 µg	130-096-693
	25 µg	130-096-694
	100 µg	130-096-695
Human Flt3-Ligand, premium grade*	10 µg	130-096-476
	25 µg	130-096-477
	100 µg	130-096-479
Human TPO, premium grade*	10 µg	130-095-747
	25 µg	130-095-750
	100 µg	130-095-752
Human IL-3, premium grade*	10 µg	130-095-071
	25 µg	130-095-070
	100 µg	130-095-069
Human IL-6, premium grade*	10 µg	130-095-352
	25 µg	130-093-931
	100 µg	130-093-932
	500 µg	130-093-933
StemMACS HSC Expansion Cocktail, human	for 100 mL medium	130-100-843
StemMACS HSC Expansion Media XF, human*	100 mL	130-100-473
	500 mL	130-100-463
StemMACS HSC-CFU Assay Kit, human	450 mL	130-125-042
StemMACS HSC-CFU Media, human	100 mL w/o Epo	130-091-277
	100 mL with Epo	130-091-280
	100 mL lite with Epo	130-091-281

MSC expansion and differentiation

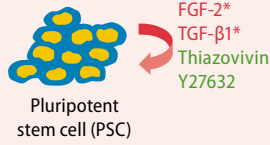
Product	Quantity	Order no.
Human FGF-2, premium grade*	10 µg	130-093-839
	50 µg	130-093-840
	100 µg	130-093-564
Human VEGF (165) IS, premium grade	10 µg	130-109-395
	25 µg	130-109-396
	100 µg	130-109-385
Human PDGF-BB IS, premium grade	10 µg	130-108-163
	25 µg	130-108-162
	100 µg	130-108-161
Human TGF-β1, premium grade*	5 µg	130-095-067
	25 µg	130-095-066
	100 µg	130-108-969
StemMACS MSC Expansion Media Kit XF, human*	500 mL	130-104-182
StemMACS ChondroDiff Media, human	100 mL	130-091-679
StemMACS AdipoDiff Media, human	100 mL	130-091-677
StemMACS OsteoDiff Media, human	100 mL	130-091-678

Some selected products are also available in the convenient 1000 µg format, check the website for further information

*Selected products also available in MACS® GMP Grade

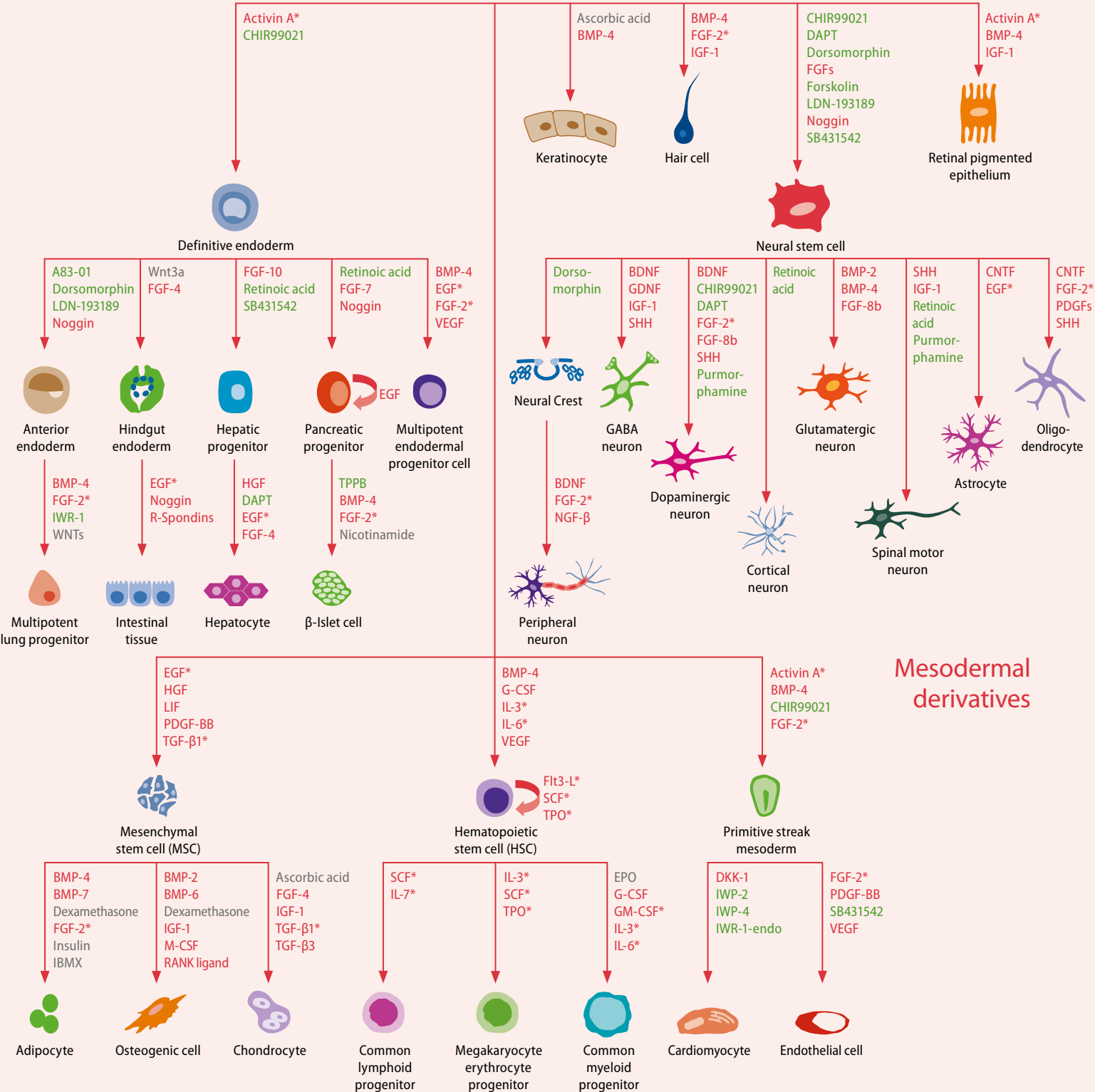
Cell culture reagents for stem cell differentiation

Endodermal derivatives



Ectodermal derivatives

Mesodermal derivatives



■ Available from Miltenyi Biotec *Available also in MACS® GMP Grade ■ StemMACS™ Small Molecules ■ Product not available

The information contained herein mainly applies to differentiation and activation of human cells. Cytokines indicated as "available" and "available in MACS® GMP Grade" refer to human recombinant cytokines. To check availability of mouse and rat recombinant cytokines, please refer to www.miltenyibiotec.com. Unless otherwise specifically indicated, Miltenyi Biotec products and services are for research use only and not for therapeutic or diagnostic use. MACS® GMP Products are for research use and *ex vivo* cell culture processing only, and are not intended for human *in vivo* applications. For regulatory status in the USA, please contact your local representative. MACS GMP Products are manufactured and tested under a quality system certified to ISO 13485 and are in compliance with relevant GMP guidelines. They are designed following the recommendations of USP <1043> on ancillary materials. MACS, the Miltenyi Biotec logo, NeuroBrew, and StemMACS are registered trademarks or trademarks of Miltenyi Biotec and/or its affiliates in various countries worldwide. Copyright © 2020 Miltenyi Biotec and/or its affiliates. All rights reserved.

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