Miltenyi Biotec

Cell culture reagents for your stem cell research



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.
Scan the QR-code for more information on MACS® Cell Culture:



MACS Media

- Superior expansion or differentiation of functional stem cells.
- Xeno-free media composition for high lot-to-lot consistency.
- Designed to support your stem cell workflow.



MACS Premium-Grade Cytokines

- Lot-specific cytokine activity provided.
- Precise dosing increases reproducibility and reliability.
- Reagent savings reduce costs – no more oversaturation.



StemMACS™ Small Molecules

- Ready to-use in solution – less hands on time.
- Chemically defined and high purity.
- High lot-to-lot consistency for robust, reproducible results.



StemMACS mRNA Transfection Reagents

- High-level expression.
- Efficient, lipid-based transfection into various cell types.
- Fast and easy protocols.

Selected products for your stem cell culture

PSC culture and maintenance

Product	Quantity	Order no.
Human TGF-β1, premium grade*	5 µg 25 µg 100 µg	130-126-723 130-126-721 130-126-724
Human FGF-2, premium grade*	10 µg 50 µg 100 µg	130-093-839 130-093-840 130-093-564
StemMACS Thiazovivin	1 mg 0.5 mg (liquid)	130-104-461 130-106-542
StemMACS Y27632	2 mg 5 × 2 mg 2 mg (liquid)	130-103-922 130-104-169 130-106-538
StemMACS Trilineage Differentiation Kit, human	for 12 assays	130-115-660
StemMACS iPS-Brew XF, human*	500 mL	130-104-368
StemMACS PSC-Brew XF, human	500 mL	130-127-865
StemMACS PSC-Support XF, human	8 mL	130-127-287
StemMACS Passaging Solution XF, human	100 mL	130-104-688
StemMACS Cryo-Brew	50 mL	130-109-558
MACSmatrix Laminin 511	350 µg	130-136-454

Hepatic differentiation from PSCs

Product	Quantity	Order no.
Human Activin A, premium grade*	10 µg 25 µg 100 µg	130-115-008 130-115-009 130-115-010
Human HGF, research grade	5 µg 25 µg 100 µg	130-093-871 130-093-872 130-103-437
Human FGF-10, premium grade	25 µg 100 µg	130-127-855 130-127-856
Human FGF-4, premium grade	10 µg 25 µg 100 µg	130-109-389 130-109-390 130-109-394
Human EGF, premium grade*	100 µg 500 µg	130-097-749 130-097-750
StemMACS CHIR99021	2 mg 5 × 2 mg 2 mg (liquid)	130-103-926 130-104-172 130-106-539
StemMACS Retinoic Acid	50 mg	130-117-339
StemMACS SB431542	5 mg 2 × 5 mg 5 mg (liquid)	130-105-336 130-106-275 130-106-543
StemMACS DiffBase XF, human	500 mL	130-126-015

Cardiovascular differentiation from PSCs

Product	Quantity	Order no.
Human BMP-4, premium grade	10 µg 25 µg 100 µg	130-111-164 130-111-167 130-111-165
Human Activin A, premium grade*	10 µg 25 µg 100 µg	130-115-008 130-115-009 130-115-010
Human FGF-2, premium grade*	10 µg 50 µg 100 µg	130-093-839 130-093-840 130-093-564
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 Cultivation Medium XF, human	500 mL	130-125-287
StemMACS EndothelDiff Kit XF, human	for 55 assays	130-139-194
StemMACS Endothel Cultivation Medium XF, human	125 mL	130-139-193
MACSmatrix Laminin 511	350 µg	130-136-454

Pancreatic differentiation from PSCs

Product	Quantity	Order no.
Human Activin A, premium grade*	10 µg 25 µg 100 µg	130-115-008 130-115-009 130-115-010
Human Noggin, research grade	10 µg 100 µg	130-138-912 130-138-914
Human FGF-7, premium grade	10 µg 25 µg 100 µg	130-097-173 130-097-178 130-097-176
Human FGF-2, premium grade*	10 µg 50 µg 100 µg	130-093-839 130-093-840 130-093-564
Human BMP-4, premium grade	10 µg 25 µg 100 µg	130-111-164 130-111-167 130-111-165
Human EGF, premium grade*	100 µg 500 µg	130-097-749 130-097-750
StemMACS CHIR99021	2 mg 5 × 2 mg 2 mg (liquid)	130-103-926 130-104-172 130-106-539
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 differentiation from PSCs

Product	Quantity	Order no.
Human Activin A, premium grade*	10 µg 25 µg 100 µg	130-115-008 130-115-009 130-115-010
Human FGF-4, premium grade	10 µg 25 µg 100 µg	130-109-389 130-109-390 130-109-394
Human R-Spondin 1, premium grade	10 µg 25 µg 100 µg	130-133-886 130-133-542 130-133-543
Human R-Spondin 3, research grade	20 µg 100 µg	130-105-804 130-108-962
Human Noggin, research grade	10 µg 100 µg	130-138-912 130-138-914
Human EGF, premium grade*	100 µg 500 µg	130-097-749 130-097-750
Human Wnt3a, research grade	10 µg 100 µg	130-138-963 130-138-964
StemMACS CHIR99021	2 mg 5 × 2 mg 2 mg (liquid)	130-103-926 130-104-172 130-106-539
StemMACS DiffBase XF, human	500 mL	130-126-015

Neural differentiation from PSCs

Product	Quantity	Order no.
Human FGF-8b, premium grade*	10 µg 25 µg 100 µg	130-095-737 130-095-738 130-095-740
Human BDNF, research grade	10 µg 100 µg	130-138-876 130-138-877
Human GDNF, premium grade	10 µg 25 µg 100 µg	130-129-544 130-129-543 130-129-542
Human SHH (C24II), premium grade*	10 µg 25 µg 100 µg	130-095-721 130-095-723 130-095-727
StemMACS SB431542	5 mg 2 × 5 mg 5 mg (liquid)	130-105-336 130-106-275 130-106-543
StemMACS LDN-193189	2 mg 5 × 2 mg 2 mg (liquid)	130-103-925 130-104-171 130-106-540
StemMACS Cerebral OrganoidDiff Kit XF, human	up to 192 organoids	130-136-490
StemMACS Cerebral Organoid Cultivation Medium XF, human	500 mL	130-139-359
MACS NeuroBrew®-21	10 mL 10 mL (w/o Vitamin A)	130-093-566 130-097-263
MACS Neuro Medium	500 mL	130-093-570
AstroMACS Medium	500 mL	130-117-031

*Selected products also available in MACS® GMP Grade.

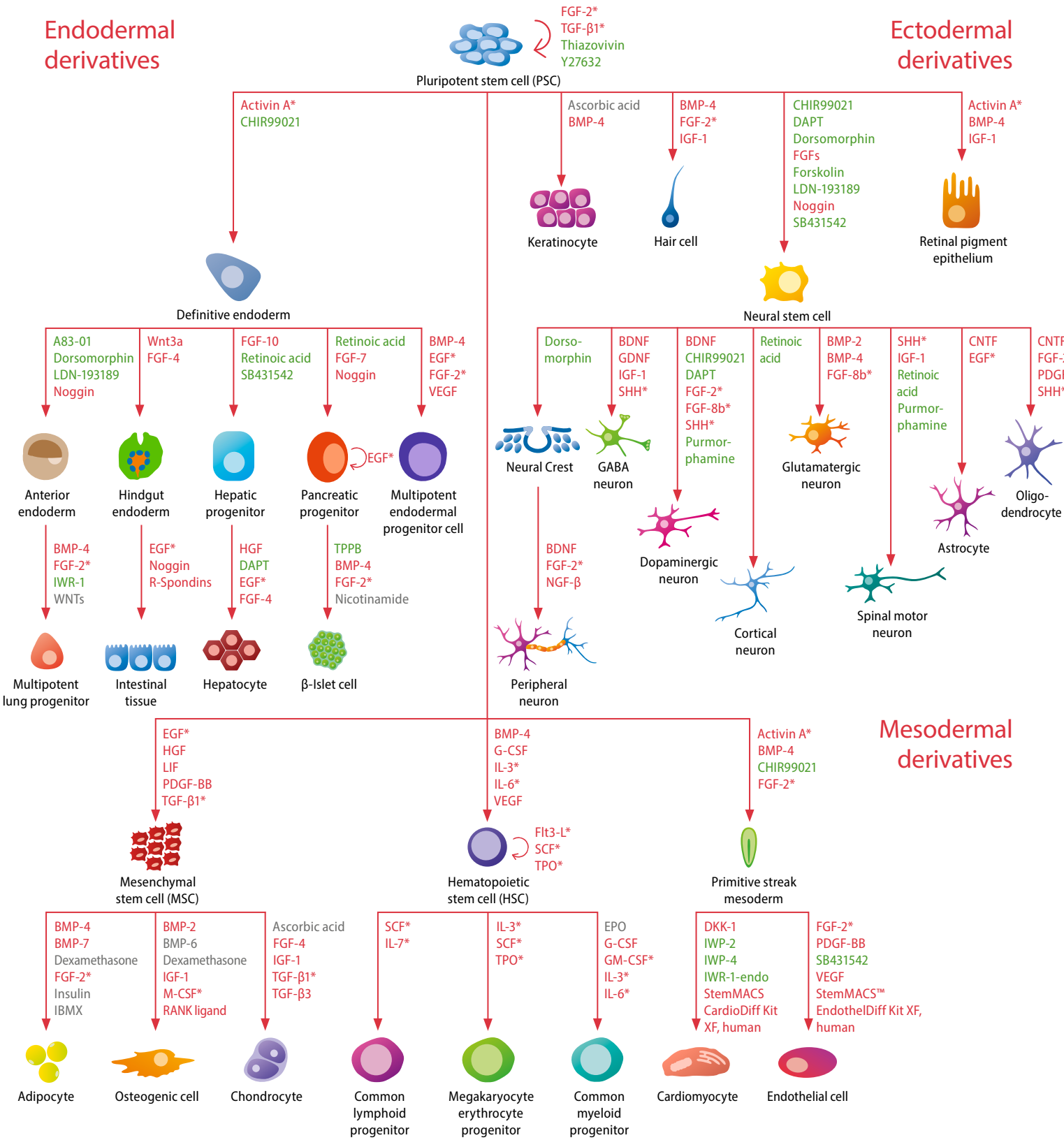
Reprogramming and differentiation of cells using StemMACS mRNA Transfection Reagents

StemMACS mRNA Reagents enable efficient, non-integrative mRNA transfection for safe and precise control of stem cell reprogramming and differentiation.

Product	Quantity	Order no.
StemMACS mRNA Transfection Kit	1 kit (small) 1 kit (medium) 1 kit (large)	130-132-978 130-132-949 130-104-463
Localization markers		
StemMACS YPet mRNA	20 µg	130-120-971
StemMACS mCherry mRNA	20 µg	130-120-975
StemMACS Nuclear eGFP mRNA	20 µg	130-101-119
StemMACS eGFP mRNA	20 µg	130-101-114
Recombinases		
StemMACS Flp Recombinase mRNA	20 µg	130-106-769
StemMACS Cre Recombinase mRNA	20 µg	130-101-113
Differentiation into PSCs		
StemMACS Nanog mRNA, human	20 µg	130-101-118
StemMACS Sox2 mRNA, human	20 µg	130-101-075
StemMACS Lin28 mRNA, human	20 µg	130-101-117
StemMACS Klf4 mRNA, human	20 µg	130-101-115
StemMACS c-Myc mRNA, human	20 µg	130-101-112
Differentiation into neural cells		
StemMACS Nurr1 (NR4a2) mRNA, human	20 µg	130-104-384
StemMACS Mash1 (Ascl1) mRNA, human	20 µg	130-104-369
StemMACS Lmx1a mRNA, human	20 µg	130-104-381
StemMACS Myt1l mRNA, human	20 µg	130-104-379
StemMACS Brn2 mRNA, human	20 µg	130-104-370
StemMACS NeuroD1 mRNA, human	20 µg	130-104-382
StemMACS NeuroG2 mRNA, human	20 µg	130-104-383
Differentiation into adipocytes		
StemMACS Pparg mRNA, human	20 µg	130-104-386
StemMACS Cebpb mRNA, human	20 µg	130-104-377
Reprogramming of human fibroblasts		
StemMACS iPSC mRNA Reprogramming Kit, human	1 kit	130-132-990

Miltenyi Biotec

Cell culture reagents for stem cell differentiation



■ 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.

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▸ miltenyibiotec.com/macscellculture



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