

STEMdiff™ NK Cell Kit

For expansion and differentiation of hPSCs to NK cells

Catalog #100-0170 1 Kit



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Product Description

STEMdiff™ NK Cell Kit includes serum-free media and supplements for the feeder-free differentiation of human pluripotent stem cells (hPSCs) to natural killer (NK) cells expressing CD56.

STEMdiff™ Hematopoietic - EB reagents are animal-component free and optimized for lymphoid differentiation potential. Using these reagents, CD34+ hematopoietic progenitor cells are first generated from hPSCs; these can then be differentiated to NK cells using the StemSpan™ components.

Product Information

The following are components of STEMdiff™ NK Cell Kit (Catalog #100-0170); the StemSpan™ components are also available for individual sale.

| COMPONENT NAME | COMPONENT # | QUANTITY | STORAGE | SHELF LIFE |
|---|-------------|----------|-----------------|---|
| STEMdiff™ Hematopoietic - EB Basal Medium | 100-0171 | 120 mL | Store at -20°C. | Stable for 12 months from date of manufacture (MFG) on label. |
| STEMdiff™ Hematopoietic - EB Supplement A | 100-0172 | 265 µL | Store at -20°C. | Stable for 12 months from date of manufacture (MFG) on label. |
| STEMdiff™ Hematopoietic - EB Supplement B | 100-0173 | 7 mL | Store at -20°C. | Stable for 12 months from date of manufacture (MFG) on label. |
| StemSpan™ Lymphoid Progenitor Expansion Supplement (10X) [†] | 09915 | 5 mL | Store at -20°C. | Stable for 18 months from date of manufacture (MFG) on label. |
| StemSpan™ Lymphoid Differentiation Coating Material (100X) [†] | 09925 | 250 µL | Store at -20°C. | Stable for 18 months from date of manufacture (MFG) on label. |
| StemSpan™ NK Cell Differentiation Supplement (100X) | 09950 | 0.5 mL | Store at -20°C. | Stable for 2 years from date of manufacture (MFG) on label. |
| StemSpan™ SFEM II ^{†*} | 09605 | 100 mL | Store at -20°C. | Stable for 18 months from date of manufacture (MFG) on label. |

[†]This product contains material derived from human plasma. Donors have been tested and found negative for hepatitis B surface antigen (HBsAg) and HIV-1 antibodies and/or HIV-1 antigen. However, this product should be considered potentially infectious and treated in accordance with universal handling precautions.

*500 mL format is also available (Catalog #09655).

Directions for Use

For complete instructions, refer to the Technical Manual: Generation of NK Cells Using STEMdiff™ or StemSpan™ NK Cell Kits (Document #1000007537), available at www.stemcell.com or contact us to request a copy.

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED. FOR ADDITIONAL INFORMATION ON QUALITY AT STEMCELL, REFER TO WWW.STEMCELL.COM/COMPLIANCE.

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