

# StemSpan™ NK Cell Generation Kit



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

[INFO@STEMCELL.COM](mailto:INFO@STEMCELL.COM) • [TECHSUPPORT@STEMCELL.COM](mailto:TECHSUPPORT@STEMCELL.COM)

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**For expansion and differentiation of human CD34+ hematopoietic progenitor cells to NK cells**

Catalog #09960

1 Kit

## Product Description

StemSpan™ NK Cell Generation Kit has been developed to differentiate CD34+ cells isolated from cord blood (CB) or bone marrow to natural killer (NK) cells, without use of stromal cells. This kit typically promotes the expansion of thousands of CD56+ NK cells in cultures initiated with CD34+ human CB cells. For differentiating human pluripotent stem cell (hPSC)-derived CD34+ cells, STEMdiff™ NK Cell Kit (Catalog #100-0170) is required.

StemSpan™ Lymphoid Progenitor Expansion Supplement (10X) contains a combination of recombinant human cytokines and other additives formulated to selectively promote the expansion and differentiation of CD34+ cells to lymphoid progenitor cells when used in combination with StemSpan™ SFEM II, and on plates coated with StemSpan™ Lymphoid Differentiation Coating Material (100X). Subsequently, StemSpan™ NK Cell Differentiation Supplement (100X)—when used in combination with StemSpan™ SFEM II and UM729 (Catalog #72332) on uncoated tissue-culture treated plates—enables differentiation of lymphoid progenitor cells to NK cells.

## Product Information

The following products are components of StemSpan™ NK Cell Generation Kit (Catalog #09960) and are also available for individual sale.

PRODUCT NAME	CATALOG #	QUANTITY	STORAGE	SHELF LIFE
StemSpan™ Lymphoid Progenitor Expansion Supplement (10X) <sup>†</sup>	09915	5 mL	Store at -20°C.	Stable for 1.5 years from date of manufacture (MFG) on label.
StemSpan™ Lymphoid Differentiation Coating Material (100X) <sup>†</sup>	09925	250 µL	Store at -20°C.	Stable for 1.5 years 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 <sup>†*</sup>	09605	100 mL	Store at -20°C.	Stable for 1.5 years from date of manufacture (MFG) on label.

<sup>†</sup>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 for STEMdiff™ or StemSpan™ NK Cell Kits (Document #1000007537), available at [www.stemcell.com](http://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](http://WWW.STEMCELL.COM/COMPLIANCE).

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