



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	CEM.NKR Cells
Catalog Number:	458
Lot Number:	160146
Release Category:	D
Provided:	1 mL of cells Post thaw cell count = 5.9×10^6 cells/mL Post thaw cell viability = 61% Cell viability increased to 95% after 7 days in culture.
Cell Type:	Human T-lymphoblastoid cell line
Propagation Medium:	Iscove's Modified Dulbecco's Medium, 95%; fetal bovine serum, 5%; or RPMI 1640, 90%; fetal bovine serum, 10%
Freeze Medium:	Fetal bovine serum, 90%; DMSO, 10%
Growth Characteristics:	Grow in suspension as single cells. Doubling time is 24 hours. Keep cells at $0.5 - 2 \times 10^6$ cells/mL. Will grow in RPMI 1640 with 5% fetal bovine serum.
Morphology:	Suspension cell line
Sterility:	Negative for mycoplasma, bacteria, and fungi
Description:	CEM.NKR ^R is a CEM variant that is resistant to NK cell-mediated lysis.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Special Characteristics: CEM.NK^R cells were generated by maintaining CEM cells under pressure of NK cell-mediated lysis by co-culture with unseparated PBMC. The cells are CD4+ and can be infected with HIV.

Recommended Storage: Keep the reagent in liquid nitrogen.

Contributor: Dr. Peter Cresswell

References: Howell, D. N., Andreotti, P. E., Dawson, J. R., & Cresswell, P. (1985). Natural killing target antigens as inducers of interferon: studies with an immunoselected, natural killing-resistant human T lymphoblastoid cell line. *J Immunol*, 134(2), 971-976. [PUBMED](#)

Lyerly, H. K., Reed, D. L., Matthews, T. J., Langlois, A. J., Ahearne, P. A., Petteway, S. R., Jr., & Weinhold, K. J. (1987). Anti-GP 120 antibodies from HIV seropositive individuals mediate broadly reactive anti-HIV ADCC. *AIDS Res Hum Retroviruses*, 3(4), 409-422. doi:10.1089/aid.1987.3.409 [PUBMED](#)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: CEM.NKR Cells from Dr. Peter Cresswell." Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Peter Cresswell at email address peter.cresswell@yale.edu and specify in the email the name of the reagent and a description of the intended use of the reagent.

Last Updated September 21, 2020

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