



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent:	CEM.NKR Cells
Catalog Number:	458
Lot Number:	110231
Release Category:	D
Provided:	5.0 x 10 ⁶ cells/vial. 95% viability
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 x 10 ⁶ cells/ml. Will grow in RPMI 1640 with 5% fetal bovine serum.
Morphology:	Round cells.
Sterility:	Negative for mycoplasma, bacteria, and fungi.
Special Characteristics:	CEM.NKR ^R is a CEM variant that is resistant to NK cell-mediated lysis. It is CD4 ⁺ and can be infected with HIV.
Recommended Storage:	Liquid nitrogen.
Contributor:	Dr. Peter Cresswell.

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.

References:

Howell DN, Andreotti JR, Cresswell P. Natural killing target antigens as inducers of interferon; studies with an immunoselected, natural-killing-resistant human T-lymphoblastoid cell line. *J Immunol* **134**:971-976, 1985.

Lyerly HK, Reed DL, Matthews TJ, Langlois AJ, Ahearne PA, Petteway SR, Weinhold KJ. Anti-gp120 antibodies from HIV seropositive individuals mediate broadly reactive anti-HIV ADCC. *AIDS Res Hum Retroviruses* **3**:409-422, 1987.

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

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.