



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	CEM.NKR Cells
Catalog Number:	458
Lot Number:	95081
Release Category:	D
Provided:	6.2 x 10 ⁶ cells/vial.
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 aerobic and anaerobic bacteria, yeast, mold, and mycoplasma.
Special Characteristics:	CEM.NKR ^R is a CEM variant that is resistant to NK killing. It is CD4 ⁺ and can be infected with HIV. These cells are useful for ADCC lysis studies.
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 01, 2016

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