



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	CEM.NKR CCR5+ Cells
<b>Catalog Number:</b>	4376
<b>Lot Number:</b>	150240
<b>Release Category:</b>	A
<b>Provided:</b>	1 mL of cells at $5.9 \times 10^6$ cells/mL. The viability is 86%.
<b>Cell Type:</b>	CEM cells - human CD4+ lymphoblasts.
<b>Propagation Medium:</b>	RPMI 1640, 90%; fetal bovine serum, 10%. Supplement with 2 mM L-glutamine.
<b>Freeze Medium:</b>	Propagation medium, 90%; DMSO, 10%.
<b>Growth Characteristics:</b>	Cells grow in suspension as single cells with small clumps. Split 1:10 twice weekly.
<b>Morphology:</b>	Round lymphoid cells, morphology not very variable.
<b>Sterility:</b>	Negative for bacteria, fungi, and mycoplasma.
<b>Description:</b>	CEM.NKR cells that express human CCR5.
<b>Special Characteristics:</b>	CEM.NKR cells (cat# 458) are CEM cells that are resistant to NK cell-mediated cell lysis. These cells were transduced with a retroviral vector to express human CCR5. Cells do not secrete infectious virus. Suitable for infection with primary HIV isolates. Alternate names: CEM.NKR-CCR5

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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.

**Recommended Storage:** Liquid nitrogen.

**Contributor:** Dr. Alexandra Trkola.

**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.

Trkola A, Matthews J, Gordon C, Ketas T, Moore JP. A cell line-based neutralization assay for primary human immunodeficiency virus type 1 isolates that use either the CCR5 or CXCR4 coreceptor. *J Virol* **73**:8966-8974, 1999.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: CEM.NK<sup>R</sup> CCR5+ Cells from Dr. Alexandra Trkola." Also include the references cited above in any publications.

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