



DATA SHEET

For research use only. Not for use in humans.

Reagent:	CEM.NKR CCR5+ Cells
Catalog Number:	ARP-4376
Lot Number:	190132
Release Category:	A
Provided:	Each vial of ARP-4376 contains approximately 6.3×10^6 cells in 0.8 mL of freeze medium. Post-thaw viability was 88%.
Cell Type:	ARP-4376 is a line of CEM cells – human CD4+ lymphoblasts.
Propagation Medium:	The recommended propagation medium is RPMI 1640 medium supplemented with 10% fetal bovine serum and 2 mM L-glutamine.
Freeze Medium:	The recommended freeze medium is Gibco Recovery Cell Culture Freezing Medium.
Growth Characteristics:	ARP-4376 grows as a single-cell suspension with small clumps and should be split 1:10 twice weekly. Round lymphoid cells are typically seen, and morphology is not very variable.
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Description:	ARP-4376 is comprised of CEM.NKR cells that express human CCR5.
Special Characteristics:	CEM.NKR cells (ARP-458) are CEM cells that are resistant to natural killer (NK) cell-mediated cell lysis. These cells were transduced with a retroviral vector to express human CCR5. Cells do not secrete infectious virus. ARP-4376 is suitable for infection with primary human immunodeficiency virus (HIV) isolates. An alternate name for these cells is CEM.NKR-CCR5.
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Dr. Alexandra Trkola
References:	<p>Howell, D. N., et al. "Natural Killing Target Antigens as Inducers of Interferon; Studies with an Immunoselected, Natural Killing-Resistant Human T Lymphoblastoid Cell Line." <i>J. Immunol.</i> 134 (1985): 971-976. PubMed: 3871222.</p> <p>Lyerly, H. K., et al. "Anti-GP 120 Antibodies from HIV Seropositive Individuals Mediate Broadly Reactive Anti-HIV ADCC." <i>AIDS Res. Hum. Retroviruses</i> 3 (1987): 409-422. PubMed: 2833917.</p> <p>Trkola, A., et al. "A Cell Line-Based Neutralization Assay for Primary Human Immunodeficiency Virus Type 1 Isolates that Use Either the CCR5 or the CXCR4 Coreceptor." <i>J. Virol.</i> 73 (1999): 8966-8974. PubMed: 10516002.</p>
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: CEM.NKR CCR5+ Cells, ARP-4376, contributed by Dr. Alexandra Trkola." Also include the references cited in any publication.
Biosafety Level: 1	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <i>Biosafety in Microbiological and Biomedical Laboratories</i> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm .

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