

DATA SHEET

For research use only. Not for use in humans.

Reagent:	CEM.NKR CCR5+Luc+ Cells
Catalog Number:	ARP-5198
Lot Number:	200186
Provided:	Each vial of ARP-5198 contains approximately 4.9×10^6 cells in 0.6 mL of freeze medium. Post-thaw viability was 84%.
Cell Type:	ARP-5198 is human CD4+ lymphoblasts.
Propagation Medium:	The recommended propagation medium is 90% RPMI supplemented with 10% fetal bovine serum, 4mM GlutaMAX™ and 0.8 mg/mL G418.
Freeze Medium:	The recommended freeze medium is Gibco Recovery™ Cell Culture Freezing Medium.
Growth Characteristics:	Morphology is round lymphoid cells, not very variable. The cells grow in suspension as single cells or in small clumps. Split 1:10 twice weekly. The optimal concentration is 2×10^4 per well in a 96-well plate. <u>Note:</u> A typographical error was made in the Spenlehauer et al. Virology paper that stated the cells should be used at 2×10^5 cells per well.
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Description:	ARP-5198 are CEM.NKR CCR5+Luc+ cells that express the luciferase gene under the transcriptional control of the human immunodeficiency virus 2 (HIV-2) long terminal repeat (LTR).
Special Characteristics:	ARP-5198 are derived from CEM.NKR CCR5+ cells (ARP-4376) that were stably transfected to express luciferase activity after transactivation of the HIV-2 LTR and are suitable for infection with primary HIV isolates. CEM.NKR CCR5+ are CCR5+ CEM cells that are resistant to NK cell-mediated cell lysis. ARP-5198 is also referred to as CEM.NKR-CCR5-Luc.
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Dr. John Moore and Dr. Catherine Spenlehauer
References:	Spenlehauer, C., et al. "A Luciferase-Reporting Gene-Expressing T-Cell Line Facilitates Neutralization and Drug-Sensitivity Assays that Use Either R5 or X4 Strains of Human Immunodeficiency Virus Type I." <i>Virology</i> 280 (2001): 292-300. PubMed: 11162843. Trkola, A., et al. "A Cell Line-Based Neutralization Assay for Primary Human Immunodeficiency Virus Type I Isolates that Use Either the CCR5 or CXCR4 Coreceptor." <i>J. Virol.</i> 73 (1999): 8966-8974. PubMed: 10516002.
Citation:	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: CEM.NKR CCR5+Luc+ Cells, ARP-5198."
Biosafety Level: 2	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. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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