



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	HOS CCR5+ Cells
Catalog Number:	3519
Lot Number:	150234
Release Category:	C
Provided:	1 vial of cells at 3.1×10^6 cells/vial. Post-thaw viability = 58%
Cell Type:	HOS (human osteosarcoma) cells
Propagation Medium:	DMEM, 90%; fetal bovine serum 10%; supplement with 1.0 μ g/ml puromycin.
Freeze Medium:	DMEM, 70%; fetal bovine serum, 20%; DMSO, 10%.
Growth Characteristics:	Thaw cells quickly at 37°C and immediately place them in 10 ml culture medium. Centrifuge at 400 X g to wash out DMSO, resuspend the cells in 10 ml fresh culture medium, and plate them onto a 10 cm ² tissue culture dish. Cells normally require a minimum of 2–4 days to recover, but should be checked daily to see if they need to be split. Cells split 1:10 should become confluent after three days. Trypsinize and split at least twice a week; do not allow them to become over-confluent.
Sterility:	Negative for bacteria, fungi, and mycoplasma.
Description:	HOS cells expressing CCR5. These cells are CD4 negative.
Special Characteristics:	cDNA encoding CCR5 was subcloned into the retroviral vector pBABE-puro. Amphotropic virus stocks were prepared by cotransfecting 293T cells with the resulting pBABE-puro construct, a VSV-G envelope expression vector, and pSV-gag-pol.ψ-env- (Landau & Littman, 1992). Supernatants were collected after 48 hours and used to infect HOS cells. After another 48 hours, cells were selected in medium containing 1 μ g/ml puromycin. This cell line was cultured in vitro and the expression of the receptor of interest was

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confirmed by flow cytometry. Single cells were then individually sorted and propagated, with continued monitoring of expression of key receptors. Despite these efforts, the population remains heterogeneous for expression.

Alternate names: HOS.CCR5

Recommended Storage:

Liquid nitrogen.

Contributor:

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References:

Deng H, Liu R, Ellmeier W, Choe S, Unutmaz D, Burkhart M, Di Marzio P, Marmon S, Sutton RE, Hill CM, Davis CB, Peiper SC, Schall TJ, Littman DR, Landau NR. Identification of a major co-receptor for primary isolates of HIV-1. *Nature* **381**:661-666, 1996.

Landau NL, Littman DR. Packaging system for rapid production of murine leukemia virus vectors with variable tropism. *J Virol* **66**:5110-5113, 1992.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HOS.CCR-5 from Dr. Nathaniel Landau." Also include the reference cited above in any publications.

Patent pending.

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