



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: HOS CXCR4+ Cells

Catalog Number: 3518

Lot Number: 080222

Release Category: C

Provided: 9 X 10⁶ cells/vial. Viability, 97%.

Cell Type: HOS (human osteosarcoma) cells

Propagation Medium: DMEM, 90%; fetal bovine serum 10%; supplement with 1.0 µg/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 cm² tissue culture dish. Cells normally require a minimum of 3-4 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 overconfluent.

Sterility: Negative for bacteria, fungi, and mycoplasma.

Description: HOS cells expressing CXCR4. These cells are CD4 negative.

Special Characteristics: cDNA encoding CXCR4 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 µg/ml puromycin.

Alternate name: HOS CXCR4

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.

Alternate names: HOS.CXCR4

Recommended Storage:

Liquid nitrogen.

Contributor:

Dr. Nathaniel Landau, Aaron Diamond AIDS Research Center, The Rockefeller University.

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.CXCR-4 from Dr. Nathaniel Landau." Also include the reference cited above in any publications.

Patent pending.

Last Updated

April 07, 2020

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