



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	HIV-1 BG505 gp120 Expressing CHO cells (BG505.SOSIP.664)
<b>Catalog Number:</b>	13869
<b>Lot Number:</b>	200307
<b>Release Category:</b>	E
<b>Provided:</b>	600 µL of cells Post thaw cell count = $4.78 \times 10^6$ cells/vial Post thaw cell viability = 48% Cell viability increased to 88% after 7 days in culture.
<b>Cell Type:</b>	Flp-in cell line transfected with DNA vector expressing envelope and furin
<b>Propagation Medium:</b>	Donor Provided Propagation Media: PRO CHO 5 suspension media; 500 µg/mL Hygromycin B Current Propagation Media: CD OptiCHO media; 500 µg/mL Hygromycin B
<b>Freeze Medium:</b>	Gibco Recovery™ Cell Culture Freezing Medium
<b>Growth Characteristics:</b>	Seed 1 vial in 30 ml of media (small shaker flask 125 ml) Cells should double within 2-3 days and reach a density of $10 \times 10^6$ cells/mL. Cells can be split to a density no lower than $1 \times 10^6$ cells/mL.
<b>Morphology:</b>	Cells are round and visible in a suspension.
<b>Sterility:</b>	Negative for mycoplasma, bacteria, and fungi
<b>Description:</b>	This cell line expresses (by secretion) fully cleaved BG505.SOSIP.664 trimers.

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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.

**Special Characteristics:** Cells secrete recombinant trimers that can be further purified downstream. Trimers are native-like and can be used to react with broadly neutralizing antibodies to HIV.

**Recommended Storage:** Keep the reagent in liquid nitrogen.

**Contributor:** Dr. Albert Cupo and Dr. John Moore

**References:** Chung, N. P., Matthews, K., Kim, H. J., Ketas, T. J., Golabek, M., de Los Reyes, K., Korzun, J., Yasmeeen, A., Sanders, R. W., Klasse, P. J., Wilson, I. A., Ward, A. B., Marozsan, A. J., Moore, J. P. and Cupo, A. (2014). Stable 293 T and CHO cell lines expressing cleaved, stable HIV-1 envelope glycoprotein trimers for structural and vaccine studies. *Retrovirology*, 11, 33. doi:10.1186/1742-4690-11-33 [PUBMED](#)

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 BG505 gp120 Expressing CHO cells (BG505.SOSIP.664) from Dr. Albert Cupo and Dr. John Moore (cat# 13869)." Also include the reference cited above in any publications.

**Last Updated** November 04, 2020

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