



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	HIV-1 92UG21-9 gp120 secreting CHO Cells
Catalog Number:	4699
Lot Number:	00198
Release Category:	C
Provided:	2.7 X 10 ⁶ cells per ml. Viability 95%
Propagation Medium:	DMEM supplemented with 1% L-glutamine, 0.5% pen-strep, and 0.2% proline, 90%; fetal bovine serum, 10%. Selection can be imposed by addition of 1.0 mg/ml G418 and should be added when preparing cultures for freezing. G418 can be omitted when making large scale cultures for protein expression / purification. Alternatively cells can be grown in Alpha MEM media (without nucleosides, Gibco Cat# 12561-023) plus 10% dialyzed Fetal Bovine Serum (Hyclone Cat#A-1101-L), Pen/Strep/Glut and 80 nM methotrexate. For large scale production of protein cells are grown in the absence of selective agents.
Freeze Medium:	Propagation medium, 70%; fetal bovine serum, 20%; DMSO, 10%.
Growth Characteristics:	Split the cells before they become confluent. To harvest supernatant for protein, split at 1:5 such that the flask is 100% confluent after three days, and at this point harvest supernatant. If large amounts of protein are needed, the cells should be grown using hollow fiber bioreactors or spinner flasks. Envelope purification protocol is attached.
Sterility:	Negative for mycoplasma, bacteria, and fungi.
Special Characteristics:	Secretes a primary CXCR4 utilizing gp120 protein into the culture supernatant. Cell line originated from a CHO/DHFR- cell line. Cells were selected in G418 and amplified in the presence of 80 nM methotrexate. Envelope expression is generally quite stable in the absence of media containing selective agents. For comparative purposes, the CHO Uganda gp120 expression is at least 2-fold higher than the HIV-1 NL4-3 gp120 secreting CHO Cells (Cat. # 4125).

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.

Genbank Number: [U08804](#)

[Purification of HIV Envelope Protein](#)

Formally called "CHO 92UG21-9 gp120 (Clade D)"

Recommended Storage:

Liquid nitrogen.

Contributor:

Dr. James Arthos.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 secreting 92UG21-9 gp120 CHO Cells from Dr. James Arthos."

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Sally Hu at the NIH Office of Technology Transfer, Email: hus@mail.nih.gov, Phone: 301-435-5606, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

Last Updated

September 23, 2015

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