



NIH AIDS Research & Reference Reagent Program  
20301 Century Boulevard  
Bldg. 6, Suite 200  
Germantown, MD 20874  
USA

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

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## HIV-TAT DRUG INTERACTION STUDIES USING 1G5 CELLS

### *Cell Culture and Transfection:*

1G5 cells were maintained in RPMI 1640 supplemented with 10% HyClone fetal calf serum. Transfections were done in complete medium in a BTX electroporator at 120 V, 3000  $\mu$ F, in 125  $\mu$ l at  $2.5 \times 10^7$  cells/ml in a 0.2 ml cuvette. Infections with retroviral vectors were done by supernatant exposure in complete medium containing 4.0  $\mu$ g/ml polybrene. HIV infections using the NL4-3 laboratory strain were performed in complete medium. The infected cells were then treated with anti-viral compounds.

### *Luciferase Analysis:*

Five days after infection with HIV or a Tat retroviral vector (E. Aguilar-Cordova, unpublished data) and exposure to antiviral compounds, the cells were harvested, centrifuged at 1800 rpm for two minutes, washed once with PBS, and resuspended in 50  $\mu$ l of luciferase lysis buffer [25 mM Tris-phosphate (pH 7.8), 2 mM 1,2-diaminocyclohexane-N,N,N',N'-tetraacetic acid, 10% glycerol, 1% Triton X-100]. The mixture was incubated at room temperature for 15-30 minutes and microfuged for 30 seconds. 10  $\mu$ l of the lysis supernatant was added to 50  $\mu$ l of luciferase assay reagent (Promega) and immediately read in a Packard scintillation counter set for single photon counting. All experiments were done in triplicate.

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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.