

DATA SHEET

For research use only. Not for use in humans.

Reagent:	HL3T1 Cells
Catalog Number:	ARP-1115
Lot Number:	200212
Provided:	Each vial of ARP-1115 contains approximately 3.9×10^6 cells in 0.6 mL of freeze medium. Post-thaw viability was 84%.
Propagation Medium:	The recommended propagation medium is DMEM, high-glucose with GlutaMAX™, supplemented with 10% fetal bovine serum.
Freeze Medium:	The recommended freeze medium is Gibco™ Recovery™ Cell Culture Freezing Medium.
Growth Characteristics:	Split cells twice weekly at a ratio of 1:10 just upon reaching confluency, approximately 2.5×10^7 cells per T-75 flask. The culture flask should be changed every two weeks. The cells are considered to be unhealthy when they become spindle-shaped. HL3T1 cells are stable and do not need to be maintained in selection medium; if growth in selection medium is desired, propagation medium containing 500 µg/mL G418 should be used.
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Special Characteristics:	ARP-1115 is the HeLa derivative HL3T1, a sensitive indicator cell line for the human immunodeficiency virus 1 (HIV-1) Tat transactivator protein. HL3T1 cells contain stably integrated, silent copies of the HIV-1 long terminal repeat (LTR) promoter linked to the chloramphenicol acetyl transferase (CAT) gene. They produce CAT enzyme upon the introduction of active Tat. This cell line was generated by cotransfection of pL3CATt and the plasmid pSV2neo and selected in G418. Clone HL3T1 was selected based on high activation by Tat protein. In addition, CAT expression by HL3T1 is activated by Herpes virus infection. Cell lines activated only by Tat and not Herpes are available from the contributor on request. Morphology is epithelial-like. It contains LTR sequences to +80 in the R region, and the entire U3 region, but lacks U5 sequences.
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Dr. Barbara K. Felber and Dr. George N. Pavlakis
References:	Felber, B. K. and G. Pavlakis. "A Quantitative Bioassay for HIV-1 Based on Trans Activation." <i>Science</i> 239 (1988): 184-187. PubMed: 3422113. Pavlakis, G. N., B. K. Felber and C. M. Wright. "A Fusion Assay for the Detection of HIV Infected Cells." <i>Human Retroviruses, Cancer and AIDS: Approaches to Prevention and Therapy</i>. (1986) D. Bolognesi (ed.). Alan R. Liss, Inc., New York. Wright, C. M., et al. "Expression and Characterization of the Trans-Activator of HTLV-III/LAV Virus." <i>Science</i> 234 (1986): 988-992. PubMed: 3490693.
Citation:	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: HL3T1 Cells, ARP-1115."
Biosafety Level: 2	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public

Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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Note:

An NCI patent application has been filed on the use of the cell line HL3T1. Corporate requests should be directed in writing to: B.K. Felber or G.N. Pavlakis, National Cancer Institute, FCRDC, ABL-Basic Research Program, P.O. Box B/Building 539, Room 121, Frederick, Maryland 21702-1201. Phone: (301) 846-1474, FAX (301) 846-5991, Email: NCITTCFREDERICK@mail.nih.gov.

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