DATA SHEET

For research use only. Not for use in humans.

Reagent: HEK-293 cells

Catalog Number: ARP-103

Lot Number: 190134

Release Category: A

Provided: Each vial of ARP-103 contains approximately 9.9 × 10^6 cells in 0.8 mL of freeze medium. Post-thaw viability was 93%.

Propagation Medium: The recommended propagation medium is DMEM supplemented with 10% fetal bovine serum.

Freeze Medium: The recommended freeze medium is Gibco Recovery Cell Culture Freezing Medium.

Growth Characteristics: ARP-103 grows in a monolayer and double every 20 hours. The culture should be split in a ratio of 1:10. Cells should be passaged when almost confluent at 1:6.

Sterility: Tests for bacteria, fungi and mycoplasma were negative.

Description: ARP-103 is a human embryonic kidney cell line (HEK-293) isolated from primary human embryonic kidney tissue and transformed by sheared human adenovirus type 5 DNA.

Special Characteristics: ARP-103 contains the E1A/E1B genes of human adenovirus type 5 integrated into chromosome 19. The cell origin is unclear. While originally thought to be epithelial cells, data suggest they are of neuronal or adrenal gland origin.

Recommended Storage: Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.

Contributor: Dr. Andrew Rice

References:

Graham, F. L., et al. "Characteristics of a Human Cell Line Transformed by DNA from Human Adenovirus Type 5." J. Gen. Virol. 36 (1977), 59-74. PubMed: 886304.

Lin, Y. C., et al. "Genome Dynamics of the Human Embryonic Kidney 293 Lineage in Response to Cell Biology Manipulations." Nat. Commun. 5 (2014): 4767. PubMed: 25182477.

Shaw, G., et al. "Preferential Transformation of Human Neuronal Cells by Human Adenoviruses and the Origin of HEK 293 Cells." FASEB J. 16 (2002): 869-871. PubMed: 11967234.

Stepanenko, A. A. and V. V. Dmitrenko. "HEK293 in Cell Biology and Cancer Research: Phenotype, Karyotype, Tumorigenicity, and Stress-Induced Genome-Phenotype Evolution." Gene 569 (2015): 182-190. PubMed: 26026906.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: HEK-293 Cells, ARP-103, contributed by Dr. Andrew Rice." Also include the references cited in any publication.

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). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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