

DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human Immunodeficiency Virus Type 1 (HIV-1) Principal Neutralizing Domain Peptide
Catalog Number:	ARP-864
Lot Number:	150251
Provided:	Each vial of ARP-864 contains approximately 0.5 mg of lyophilized peptide.
Description:	ARP-864 is a water-soluble peptide composed of residues 306 to 327 [sequence: YNKRKRIHIQRGPGRAFYTTKNII(C)] in the principal neutralizing domain of gp120 of HIV-1 MN isolate plus the QR sequence from IIIB inserted before the GPG tripeptide, with an added COOH-terminal cysteine. It includes the highly conserved GPGRAF sequence in the principal neutralizing domain of gp120.
Purity:	ARP-864 is 98.9% pure (HPLC).
Special Characteristics:	The molecular weight of ARP-864 is 3034.60. The chemical formula is C ₁₃₅ H ₂₂₁ N ₄₅ O ₃₃ S ₁ .
Recommended Storage:	The peptide should be kept lyophilized in a dry environment at -20°C or colder.
Contributor:	Dr. Anita Hong
References:	LaRosa, G. J., et al. "Conserved Sequence and Structural Elements in the HIV-1 Principal Neutralizing Determinant." <i>Science</i> 249 (1990): 932-935. PubMed: 2392685. Javaherian, K., et al. "Principal Neutralizing Domain of the Human Immunodeficiency Virus Type 1 Envelope Protein." <i>Proc. Natl. Acad. Sci.</i> 86 (1989): 6768-6772. PubMed: 2771954.
Citation:	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Immunodeficiency Virus Type 1 (HIV-1) Principal Neutralizing Domain Peptide, ARP-864."
Biosafety Level: 1	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. <i>Biosafety in Microbiological and Biomedical Laboratories (BMBL)</i> . Current Edition. Washington, DC: U.S. Government Printing Office.
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