



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Peptide Pool, Cytomegalovirus, Epstein-Barr Virus and Influenza Virus (CEF) Control
Catalog Number:	ARP-9808
Lot Number:	180218
Release Category:	A
Provided:	Each vial of ARP-9808 contains approximately 0.5 mg net each peptide (16 mg net total).
Description:	This peptide pool consists of MHC class I restricted T cell epitopes from human cytomegalovirus, Epstein-Barr virus and influenza virus. It serves as a positive control for CD8+ T cell activation.
Sequence:	Individual peptide data, including sequence, relevant HLA alleles, molecular weight and purity data, is provided on the NIH HIV Reagent Program webpage.
Purity:	Peptides are >80% pure by HPLC.
Analytical Test:	HPLC, mass spectrometry and amino acid analysis were used to determine the sequence and purity.
Solubility:	This peptide pool is soluble in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution. Please note: Recent unpublished reports indicate that Cys and Met containing peptide sequences are highly unstable when stored in DMSO for prolonged periods of time. Degradation of these peptides in DMSO can occur within days to weeks. Although a correlation between peptide decay and effect on biological activity is currently unknown, for prolonged peptide stability, we recommend freshly prepared working solutions from freeze dried aliquots of these and other peptide pools.
Special Characteristics:	ARP-9808 is a panel of 32 of 8- to 11-mer peptides representing epitopes recognized by CD8+ T cells and presented by 15 class I HLA-A and HLA-B alleles. This reagent is useful in applications such as ELISPOT, intracellular cytokine and CTL assays.
Recommended Storage:	Keep at -20°C lyophilized and -80°C after reconstitution.
Contributor:	DAIDS, NIAID
Citation:	Acknowledgment for publications should read "The following reagent was obtained through t, Division of AIDS, NIAID, NIH: Peptide Pool, Cytomegalovirus, Epstein-Barr Virus and Influenza Virus (CEF) Control, ARP-9808, contributed by DAIDS, NIAID."
References:	Currier, J. R., et al. "A Panel of MHC Class I Restricted Viral Peptides for Use as a Quality Control for Vaccine Trial ELISPOT Assays." <i>J. Immunol. Methods</i> 260 (2002): 157-172. PubMed: 11792386. Mwau, M., et al. "Design and Validation of an Enzyme-Linked Immunospot Assay for Use in Clinical Trials of Candidate HIV Vaccines." <i>AID Res. Hum. Retroviruses</i> 18 (2002): 611-618. doi: 10.1089/088922202760019301. PubMed: 12079556.

**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. Biosafety in Microbiological and Biomedical Laboratories, 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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