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DATA SHEET

Reagent: HCMV pp65 Peptide Pool

Catalog Number: 11549

Lot Number: 100117

Provided: 1 vial of lyophilized peptides

The 138 peptides from cat# 12014 peptide set were pooled together and then distributed such that each vial contains 1.36 mg net of each peptide, 188 mg total peptide.

Description: Pool of 138 peptide sequences (15-mers) spanning the entire amino acid sequence of the HCMV pp65 protein, overlapping by 11 amino acid residues.

Now also available as a set of individual peptides, see [HCMV pp65 Peptide Set, Cat #12014](#)

Sequence: See attached.

Analytical Test: HPLC, mass spectrometry, amino acid sequencing and N-terminal sequencing 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Please note: Recent unpublished reports indicate that Cys and Met containing peptide sequences are highly unstable when stored in DMSO for prolonged periods of time.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

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.

**Special
Characteristics:**

Stimulates CD4+ and CD8+ T cells to produce IFN γ . Useful for QC of ELISPOT, CTL and intracellular cytokine assays.

[Biological Testing of PP65, Lot 2 100117](#)

Note: In position 545 of the peptide sequence, a "D" has inadvertently been replaced with an "O" when peptides were synthesized. This affects peptides 134-137.

[Table 1. HCMV pp65 Peptides](#)

**Recommended
Storage:**

-20°C

Contributor:

DAIDS, NIAID.

References:

Analysis of CD8 T cell reactivity to cytomegalovirus using protein-spanning pools of overlapping pentadecapeptides, Kern et al., *Eur. J. Immunol.* Vol **30** (6) (2000), p. 1676-1682.

Cytomegalovirus (CMV) phosphoprotein 65 makes a large contribution to shaping the T cell repertoire in CMV-exposed individuals, Kern F, et. al. *J Infect Dis.* Vol **185**(12) (2002), p. 1709-16.

Use of overlapping peptide mixtures as antigens for cytokine flow cytometry, Maecker HT, et. al. *J Immunol Methods.* Vol **255**(1-2) (2001) p. 27-40.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HCMV pp65 Peptide Pool.

Last Updated:

October 10, 2017

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