

PepPool: CMV (CD4 and CD8), human

Product code: 3619-1

Contents: The CMV peptide pool contains 42 peptides from Cytomegalovirus. The antigens represented in the peptide pool are pp50, pp65, IE1, IE2, and Envelope glycoprotein B. 28 of the peptides are MHC class I restricted and 14 are MHC class II restricted. The synthetic peptides are >95% pure.

Applications: The CMV peptide pool stimulates CD4+ and CD8+ T cells to produce e.g., IFN- γ , Granzyme B, IL-2, IL-5, and IL-13 and is recommended as a positive control in ELISpot/FluoroSpot assays using human PBMC. The peptide pool can also be used in Flow cytometry.

HLA types covered by the CMV pool

HLA class I: HLA-A1, HLA-A2, HLA-A3, HLA-A11, HLA-A23, HLA-A24, HLA-A26, HLA-A30, HLA-B7, HLA-B8, HLA-B18, HLA-B27, HLA-B35, HLA-B40/60, HLA-B41, HLA-B44, HLA-B57/58, HLA-C7

HLA class II: HLA-DRB1*01, 03, 04, 05, 07, 08, 11, 15, 20, 24, 53, HLA-DPw2, HLA-DQB, HLA-DP3*20, 14

Instructions: Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 μ l DMSO. Then add 85 μ l PBS, mix and store in aliquots at -20°C or below. This stock solution will have a concentration of 200 μ g/ml of each peptide.

Dilute the stock solution 1:100 in cell culture medium to obtain 2 μ g/ml of each peptide in the cell culture. Use the peptide pool in ELISpot and FluoroSpot assay for stimulation of 250,000 cells per well. For use in Flow cytometry, stimulate the cells over night with 2 μ g/ml peptide pool in the presence of Brefeldin A. Use the diluted peptide solution fresh.

Storage: Shipped at ambient temperature. Store frozen at -20°C or below upon receipt. After reconstitution, store aliquotes at -20°C or below. We recommend the aliquots not be refrozen after initial use.

Quantity: One vial with 25 μ g of each peptide.

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