

PepPool: CEFRAS Global (CD4), human

Product code: 3627-1

Contents: The 85 peptides in the pool are MHC class II restricted T-cell epitopes from twenty pathogens: Coxsackievirus B4, *Clostridium tetani*, *Haemophilus influenza*, *Helicobacter pylori*, Human adenovirus 5, Human herpesvirus 1, Human herpesvirus 2, Human herpesvirus 3, Human herpesvirus 4, Human herpesvirus 5, Human herpesvirus 6, Human papillomavirus, Influenza A, JC polyomavirus, Measles virus, *Mycobacterium tuberculosis*, Respiratory syncytical virus, SARS-CoV-2, Rubella virus, and Vaccinia virus. The peptide pool is designed for T cell stimulation, covering a broad range of HLA types from diverse ethnic backgrounds. Peptides are synthesized with capping after coupling. The median HPLC purity is 80%.

Applications: The CEFRAS (CD4) peptide pool stimulates CD4⁺ T cells to produce e.g., IFN- γ , IL-2, IL-4, IL-5 and TNF- α . It is recommended as a positive control in ELISpot and FluoroSpot assays using human PBMC. The peptide pool can also be used in flow cytometry.

Instructions: Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 μ l DMSO to the vial. Then add 85 μ l PBS, mix, aliquote, and store 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. Use the diluted peptide solution fresh.

Storage: Shipped at ambient temperature. Store frozen at -20 °C or below upon receipt. After reconstitution, store aliquots at -20 °C or below. The peptide solution may be stored for one month at 4-8 °C without effects on stability. We recommend the aliquots not be refrozen after initial use.

Quantity: Peptide pool with 85 peptides, 25 μ g of each peptide. Supplied lyophilized.

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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.

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Pathogens represented

Pathogen	No. peptides	Pathogen	No. peptides
SARS-CoV-2	13	<i>Helicobacter pylori</i>	3
Human herpesvirus 4 (EBV)	10	JC polyomavirus	3
Human herpesvirus 5 (CMV)	9	Vaccinia virus	3
Influenza A	9	Human herpesvirus 6 (HHV6-B)	2
Human adenovirus 5 (Ad5)	6	Measles virus	2
Human herpesvirus 1 (HSV-1)	5	Rubella virus	2
Human herpesvirus 3 (VZV)	4	<i>Haemophilus influenza</i>	1
Human papillomavirus (HPV 16 L1)	4	Human herpesvirus 2 (HSV-2)	1
<i>Clostridium tetani</i>	3	<i>Mycobacterium tuberculosis</i>	1
Coxsackievirus B4	3	Respiratory syncytial virus (RSV)	1