

PepPool: CEFRAS Global (CD4 and CD8), human

Product code: 3638-1

Contents: The 203 peptides in the pool are MHC class I and MHC class II T-cell epitopes from twenty-two 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, *Toxoplasma gondii*, Vaccinia virus, and Yellow fever. 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 88%.

Applications: The CEFRAS (CD4 and CD8) peptide pool stimulates CD4+ and CD8+ 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 by adding 40 μ l DMSO to pool 1, resuspend and transfer the solution into pool 2. Resuspend, add 85 μ l PBS and mix. The concentration of the stock solution is 200 μ g/ml of each peptide. Aliquote and store at -20°C or below.

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 203 peptides, 25 μ g of each peptide. Supplied lyophilized in two vials, pool 1 and pool 2.

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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
Human herpesvirus 5 (CMV)	35	Respiratory syncytial virus (RSV)	6
Human herpesvirus 4 (EBV)	32	Human herpesvirus 3 (VZV)	5
SARS-CoV-2	26	<i>Toxoplasma gondii</i>	5
Influenza A	14	<i>Clostridium tetani</i>	4
Human adenovirus 5 (Ad5)	11	<i>Helicobacter pylori</i>	5
Vaccinia virus	10	Human herpesvirus 6 (HHV6-B)	3
Human herpesvirus 1 (HSV-1)	8	Measles virus	3
Human herpesvirus 2 (HSV-2)	8	<i>Mycobacterium tuberculosis</i>	3
JC polyomavirus	7	Rubella virus	3
Coxsackievirus B4	6	Yellow fever	2
Human papillomavirus (HPV 16 L1)	6	<i>Haemophilus influenza</i>	1