

# PepPool: CEFRAS Global (CD8), human

<b>Product code:</b>	3637-1
<b>Contents:</b>	The 210 peptides in the pool are MHC class I-restricted T-cell epitopes from eighteen pathogens: Coxsackievirus B4, 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, <i>Mycobacterium tuberculosis</i> , Respiratory syncytical virus, SARS-CoV-2, <i>Toxoplasma gondii</i> , 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 purity is 90%.
<b>Applications:</b>	The CEFRAS peptide pool stimulates CD8+ T cells to produce e.g., IFN- $\gamma$ , IL-2, granzyme B, perforin, and TNF- $\alpha$ . 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.
<b>Instructions:</b>	<p>Sterile handling is recommended. Add 40 <math>\mu</math>l DMSO to pool 1 and transfer the solution into pool 2, then add 85 <math>\mu</math>l PBS and mix. The concentration of the stock solution is 200 <math>\mu</math>g/ml of each peptide. Aliquote and store at -20°C or below.</p> <p>Dilute the stock solution 1:100 in cell culture medium to obtain 2 <math>\mu</math>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.</p>
<b>Storage:</b>	Shipped at ambient temperature. Store frozen at -20°C or below upon receipt. After reconstitution, store aliquotes 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.
<b>Quantity:</b>	Peptide pool with 210 peptides, 25 $\mu$ g of each peptide. Supplied in two vials, pool 1 and pool 2 (lyophilized).

# MABTECH

Note; for research use only.  
Mabtech shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages therefrom.

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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	36	Vaccinia virus	7
Human herpesvirus 4 (EBV)	30	Yellow fever	6
Influenza A	25	<i>Toxoplasma gondii</i>	4
Human herpesvirus 5 (CMV)	24	Human herpesvirus 2 (HSV-2)	3
Human adenovirus 5 (Ad5)	18	Human herpesvirus 6 (HHV6-B)	3
Human herpesvirus 1 (HSV-1)	18	Human papillomavirus (HPV 16 L1)	3
Human herpesvirus 3 (VZV)	10	JC polyomavirus	2
Respiratory syncytial virus (RSV)	10	Coxsackievirus B4	1
<i>Mycobacterium tuberculosis</i>	9	Measles virus	1

### HLA coverage

HLA-I	No. peptides	HLA-I	No. peptides
A2	50	B51	4
B7	38	A31	3
A24	27	B40	3
A1	22	B42	3
A3	22	A26	2
A11	15	A29	2
B8	13	A68	2
B44	13	B54	2
B35	10	B57	2
A23	7	C7	2
A30	6	A33	1
B27	5	B39	1
B15	4		