

## CEF peptide pool for human CD8 T cells

Product code:	3615-1
Contents:	The 23 peptides in the pool are MHC class I-restricted T-cell epitopes from human Cytomegalovirus, Epstein Barr virus and Influenza virus (CEF) designed to stimulate T cells with a broad array of HLA types. The synthetic peptides are >95% pure.
Applications:	The CEF peptide pool stimulates CD8+ T cells to produce e.g., IFN- $\gamma$ , IL-2 and Granzyme B and is recommended as a positive control in ELISpot and FluoroSpot assays using human PBMC.
Instructions:	<p>Sterile handling is recommended. Dilute the peptide solution in cell culture medium to obtain a working dilution of 1:100 in the cell culture, which gives the recommended test concentration. Use the diluted peptide solution fresh.</p> <p>It is recommended to use the peptide pool in ELISpot and FluoroSpot with 250,000 cells per well and overnight incubation. Please contact Mabtech for ELISpot and FluoroSpot protocols.</p>
Storage:	Shipped at ambient temperature. Upon arrival aliquot the peptide solution into several vials and store vials frozen 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:	<p>One vial contains 100 <math>\mu</math>l with a concentration of 200 <math>\mu</math>g/ml of each peptide. The 23 peptides are dissolved in water with 10% DMSO. One vial is sufficient to analyze 100 ELISpot/FluoroSpot samples at a recommended test concentration of 2 <math>\mu</math>g of each peptide/ml, in 100 <math>\mu</math>l cell culture/well.</p> <p>Reference: Currier JR, <i>et al.</i> A panel of MHC class I restricted viral peptides for use as a quality control for vaccine trial ELISPOT assays. J. Immunol. Methods. 2002 Feb 1;260(1-2):157-72.</p>

Note; for research use only.

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## Peptides included in the CEF peptide pool

Peptide	Sequence	Epitope Source		HLA Allele Restriction
1	VSDGGPNLY	Influenza A	PB1 (591-599)	HLA-A1
2	CTELKLSDY	Influenza A	NP (44-52)	HLA-A1
3	GLCTLVAML	EBV	BMLF1 (259-267)	HLA-A2
4	GILGFVFTL	Influenza M	Matrix 1 (58-66)	HLA-A2
5	NLVPMVATV	CMV	pp65 (495-503)	HLA-A2
6	ILRGSVAHK	Influenza A	NP (265-273)	HLA-A3
7	RVRAYTYSK	EBV	BRLF1 (148-156)	HLA-A3
8	RLRAEAQVK	EBV	EBNA3A (603-611)	HLA-A3
9	IVTDFSVIK	EBV	EBNA3B (416-424)	HLA-A11
10	ATIGTAMYK	EBV	BRLF1 (134-143)	HLA-A11
11	DYCNVLNKEF	EBV	BRLF1 (28-37)	HLA-A24
12	KTGGPIYKR	Influenza A	NP (91-99)	HLA-A68
13	TPRVTGGGAM	CMV	pp65 (415-429)	HLA-B7
14	RPPIFIRRL	EBV	EBNA3A (379-387)	HLA-B7
15	QAKWRLQTL	EBV	EBNA3A (158-166)	HLA-B8
16	FLRGRAYGL	EBV	EBNA3A (325-333)	HLA-B8
17	RAKFKQLL	EBV	BZLF1 (190-197)	HLA-B8
18	ELRSRYWAI	Influenza A	NP (380-388)	HLA-B8
19	RRIYDLIEL	EBV	EBNA3C (258-266)	HLA-B27
20	SRYWAIRTR	Influenza A	NP (383-391)	HLA-B27
21	YPLHEQHGM	EBV	EBNA3A (458-466)	HLA-B35
22	EENLLDFVRF	EBV	EBNA3C (281-290)	HLA-B44
23	EFFWDANDIY	CMV	pp65 (511-525)	HLA-B44