

Product Datasheet

PepPool: CEF extended (CD8), human

Product code:	3618-1
Contents:	The 32 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 extended peptide pool stimulates CD8+ T cells to produce e.g., IFN- γ , IL-2, and Granzyme B and 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:	<p>Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 μl DMSO. Then add 85 μl PBS, mix and aliquote and store at -20°C or below. This stock solution will have a concentration of 200 μg/ml of each peptide.</p> <p>Dilute the stock solution 1:100 in cell culture medium to obtain 2 μg/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 μg/ml peptide pool in the presence of Brefeldin A. Use the diluted peptide solution fresh.</p>
Storage:	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.
Quantity:	One vial with 25 μ g of each peptide.



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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Peptides included in the CEF extended 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
24	SDEEEAIVAYTL	CMV pp65 (378-389)	HLA-B18
25	ASCMGLIY	Influenza A M1 (128-135)	HLA-B27
26	IPSINVHHY	CMV pp65 (123-1319)	HLA-B35
27	FMYSDFHFI	Influenza A PA (46-54)	HLA-A2
28	CLGGLLTMV	EBV LMP2A (426-434)	HLA-A2
29	RVLSFIKGTK	Influenza A NP(342-351)	HLA-A3
30	SIIPSGPLK	Influenza A M1 (13-21)	HLA-A11/A3/A68
31	AVFDRKSDAK	EBV EBNA3B (416-424)	HLA-A11
32	LPFDKTTVM	Influenza A NP(418-427)	HLA-B7