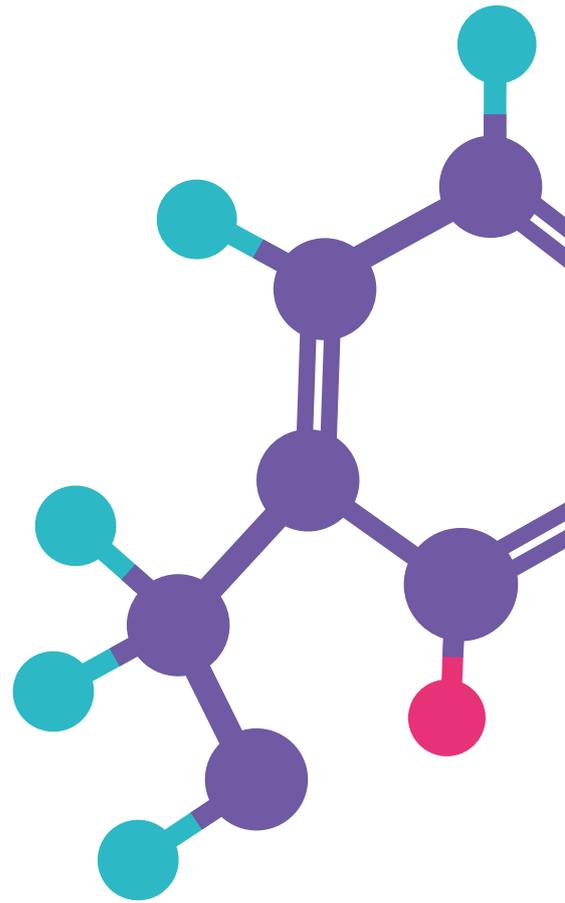




DISCOVERY[®]
PEPTIDES

CEF Peptides from Cambridge Research Biochemicals

The major histocompatibility (MHC) class I antigen presentation pathway is pivotal for triggering the adaptive immune response. The human MHC molecules also referred as the human leukocyte antigens (HLAs), are cell surface glycoproteins.



CEF peptides contain antigenic properties that are reflective of the virus from which they are derived. They are putative antigen-derived epitopes used for immune surveillance and monitoring of CD8+ T cells as they can stimulate the release of cytokines, interleukins and granzymes.





MHC/HLA proteins function to present a wide array of endogenous peptides, and any exogenous peptides present, for monitoring at the cell surface.

Cytotoxic T lymphocytes (CTL) monitor these cell surface MHC class I molecules present on the majority of host cells for viral derived peptides and eliminate any infected cells.

This selection of CEF peptides are antigenic epitopes derived from viruses, such as Cytomegalovirus (CMV), Epstein-Barr virus (EBV) and Influenza A virus. These CEF peptides are limited to a defined HLA class I-restricted T-cell epitope, and serve as ligands for engaging T-cell receptors of CD8+ T-cells involved in the activation of the adaptive immune response.

These well-defined 8-12 amino acids CEF peptides can be used as positive controls in certain assays, such as ELISpot and FluoroSpot, intracellular cytokine and CTL assays.

Zhang et al (2012). How much of virus-specific CD8 T cell reactivity is detected with a peptide pool when compared to individual peptides? *Viruses*. 4(11): 2636–2649 PMID: 23202497

CEF Peptides

CMV pp65 (415-429) (HLA-B7)
crb1001454
TPRVTGGGAM-acid
0.5mg £85 | 1mg £110

CMV pp65 (495-503) (HLA-A2)
crb1001131
NLVPMVATV-acid
0.5mg £85 | 1mg £110

CMV pp65 (511-525) (HLA-B44)
crb1001455
EFFWDANDIY-acid
0.5mg £85 | 1mg £110

EBV BMLF1 (280-288) (HLA-A2)
crb1001453
GLCTLVAML-acid
0.5mg £85 | 1mg £110

EBV BRLF1 (134-142) (HLA-A11)
crb1001456
ATIGTAMYK-acid
0.5mg £85 | 1mg £110

EBV BRLF1 (148-156) (HLA-A3)
crb1001457
RVRAYTYSK-acid
0.5mg £85 | 1mg £110

EBV BRLF1 (28-37) (HLA-A24)
crb1001458
DYCNVLNKEF-acid
0.5mg £85 | 1mg £110

EBV BZLF1 (190-197) (HLA-B8)
crb1001129
RAKFKQLL-acid
0.5mg £85 | 1mg £110

EBV EBNA3A (158-166) (HLA-B8)
crb1001459
QAKWRLQTL-acid
0.5mg £85 | 1mg £110

EBV EBNA3A (325-333) (HLA-B8)
crb1001460
FLRGRAYGL-acid
0.5mg £85 | 1mg £110

EBV EBNA3A (379-387) (HLA-B7)
crb1001461
RPPIFIRRL-acid
0.5mg £85 | 1mg £110

EBV EBNA3A (458-466) (HLA-B35)
crb1001462
YPLHEQHGM-acid
0.5mg £85 | 1mg £110

EBV EBNA3A (603-611) (HLA-A3)
crb1001463
RLRAEAQVK-acid
0.5mg £85 | 1mg £110

EBV EBNA3B (416-424) (HLA-A11)
crb1001464
IVTDFSVIK-acid
0.5mg £85 | 1mg £110

EBV EBNA3C (258-266) (HLA-B27)
crb1001465
RRIYDLIEL-acid
0.5mg £85 | 1mg £110

EBV EBNA3C (281-290) (HLA-B44)
crb1001466
EENLLDFVRF-acid
0.5mg £85 | 1mg £110

EBV BZLF1 (40-48) (HLA-E)
crb1001207
SQAPLPCVL-acid
0.5mg £85 | 1mg £110

Influenza A NP (265-273) (HLA-A3)
crb1001467
ILRGSVAHK-acid
0.5mg £85 | 1mg £110

Influenza A NP (380-388) (HLA-B8)
crb1001468
ELRSRYWAI-acid
0.5mg £85 | 1mg £110

Influenza A NP (383-391) (HLA-B27)
crb1001469
SRYWAIRTR-acid
0.5mg £85 | 1mg £110

Influenza A NP (44-52) (HLA-A1)
crb1001470
CTELKLSDY-acid
0.5mg £85 | 1mg £110

Influenza A NP (91-99) (HLA-A68)
crb1001471
KTGGPIYKR-acid
0.5mg £85 | 1mg £110

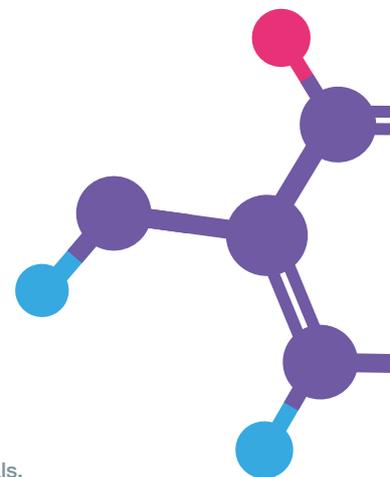
Influenza A PB1 (591-599) (HLA-A1)
crb1001472
VSDGGPNLY-acid
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HLA-A*02:01 MAGE-A1 (278-286)
crb1001109
KVLEYVIK-acid
0.5mg £85 | 1mg £110

HLA-A*02:01 NY-ESO-1 (157-165)
crb1001034
SLLMWITQC-acid
0.5mg £85 | 1mg £110

HPV E7 protein (49-57)
crb1001123
RAHYNIVTF-acid
0.5mg £85 | 1mg £110

HPV16 E7 (86-93)
crb1001411
TLGIVCPI-acid
0.5mg £85 | 1mg £110



DISCOVERY® Peptides is the catalogue range from Cambridge Research Biochemicals, a custom peptide provider. If your desired peptide is not listed or you wish to order a larger quantity, please request a custom synthesis quotation by contacting crbsales@crbdiscovery.com

www.crbdiscovery.com/cef-peptides

More peptides available at www.crbdiscovery.com/discovery-peptides

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