

PepPool: Vaccinia (CD8), human

Product code:	3670-1
Contents:	The peptide pool contains 102 defined peptides from 59 vaccinia virus proteins. The peptides are MHC-I restricted. The mean purity of the synthetic peptides is 93%.
Applications:	<p>This peptide pool stimulates human CD8 T cells to secrete IFN-γ and is recommended for use in ELISpot and FluoroSpot assays for enumeration of antigen-specific T cells.</p> <p>Of the included peptides, 79% share >90% homology with monkeypox virus. Peptide pool homology to monkeypox virus and HLA supertype coverage are listed on the other side of this page.</p>
Instructions:	<p>Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 μl DMSO. Then add 85 μl PBS, mix and store in aliquots 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 250,000-500,000 PBMCs per well. 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. We recommend the aliquots not be refrozen after initial use.
Quantity:	One vial with 25 μ g of each peptide.

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Peptide pool homology to monkeypox virus

<u>No. of peptides</u>	<u>% homology</u>
66	100
15	90
3	80
2	70
16	0

HLA class I supertype* coverage

<u>HLA class I supertype</u>	<u>No. of peptides</u>
A1	12
A2	35
A3	13
A24	10
B7	23
B44	16

* supertype associations

A1 (A1, A26, A29, A30, A32)

A2 (A2, A68, A69)

A3 (A3, A11, A31, A33, A66, A68, A74)

A24 (A24, A23, A29)

B7 (B7, B15, B35, B42, B51, B53, B54, B55, B56, B57)

B44 (B44, B18, B37, B40, B45)