

PepPool: DENV (CD8), human

Product code: 3695-1

Contents: The PepPool: DENV (CD8), human contains 109 defined synthetic peptides derived from the Dengue virus. Antigens represented in the peptide pool are the capsid protein (C), envelope protein (E), and the non structural (NS) proteins NS1, NS2a, NS2b, NS3, NS4a, NS4b, and NS5. The peptide pool has been designed to have a good coverage of Dengue virus serotypes 1, 2, 3, and 4, and to stimulate T cells with a broad array of HLA class I supertypes. Number of peptides represented from the different Dengue virus proteins and HLA class I supertype coverage are shown on the other side of this page. The mean purity of the synthetic peptides is 88%.

Applications: ELISpot and FluoroSpot

Instructions: Sterile handling is recommended. Dissolve the lyophilized peptide pool by addition of 40 µl DMSO to the vial. 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.

Dilute the stock solution in cell culture medium to obtain a final assay dilution of 1:100, i.e. 2 µg/ml of each peptide in the cell culture. Use the peptide pool in ELISpot and FluoroSpot assay for stimulation of e.g. 250,000-500,000 cells/well. Use the diluted peptide solution fresh.

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 ug of each peptide.

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Note; for research use only.
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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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Dengue virus proteins represented in the peptide pool

DENV protein	No. peptides
C	9
E	9
NS1	3
NS2A	5
NS2B	6
NS3	41
NS4A	5
NS4B	9
NS5	22

HLA class I supertype coverage*

HLA class I supertype	No. peptides
A1	13
A2	21
A3	22
A24	11
B7	27
B44	9
B8	6

* 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)