

# CMV (HLA Class I Control) Peptide Pool

## Cytomegalovirus (CMV) control peptide pool for immune cell activation

Catalog #100-1414

~25 µg (15 nmol)/peptide



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## Product Description

CMV (HLA Class I Control) Peptide Pool is a lyophilized mixture of 14 peptides from the human cytomegalovirus (CMV). The pool consists of defined HLA class I-restricted T cell epitopes and can be used as an antigen-specific positive control to stimulate T cells. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating  $2.5 \times 10^8$  cells.

### APPLICATIONS

- Antigen-specific T cell stimulation
- Cellular immune response
- Immune monitoring
- T cell assays
- T cell expansion

## Product Information

Number of Peptides:	14
Source:	Human cytomegalovirus
Purity:	≥ 95%
Formulation:	Lyophilized as trifluoroacetate salts

## Preparation and Storage

Storage:	Store at -20°C.
Stability:	Stable as supplied until expiry date (EXP) on label.
Preparation:	Warm to room temperature (15 - 25°C) before reconstitution. Add pure dimethyl sulfoxide (DMSO; ~40 µL) and dilute with water to the desired concentration. Final concentration of DMSO must be below 1% (v/v) to avoid toxicity in the biological system. If not used immediately, aliquot and store at -20°C. Protect from light. Avoid repeated freeze-thaw cycles.

## Peptide Sequences

NO.	SEQUENCE	LENGTH	SOURCE	
1	VTEHDTLLY	9	CMV pp50 245 - 253	HLA-A*01:01
2	YSEHPTFTSQY	11	CMV pp65 363 - 373	HLA-A*01:01
3	NLVPMVATV	9	CMV pp65 495 - 503	HLA-A*02:01
4	VLAELVKQI	9	CMV IE1 81 - 89	HLA-A*02:01
5	VLEETSVML	9	CMV IE1 316 - 324	HLA-A*02:01
6	KLGGALQAK	9	CMV IE1 184 - 192	HLA-A*03:01
7	QYDPVAALF	9	CMV pp65 341 - 349	HLA-A*24:02
8	VYALPKML	9	CMV pp65 113 - 121	HLA-A*24:02
9	RIPHERNGFTVL	11	CMV pp65 265 - 275	HLA-B*07:02
10	TPRVTGGGAM	10	CMV pp65 417 - 426	HLA-B*07:02
11	QIKVRVDMV	9	CMV IE1 88 - 96	HLA-B*08:01
12	SDEEEAIVAYTL	12	CMV IE1 378 - 389	HLA-B*18
13	EFFWDANDIY	10	CMV pp65 512 - 521	HLA-B*44:02
14	IPSINVHHY	9	CMV pp65 123 - 131	HLA-B*35:01

## Related Products

For a complete list of peptide pools, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com](http://www.stemcell.com), or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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