

# CMV (pp65) Peptide Pool

Cytomegalovirus (pp65) peptide pool for immune cell activation

Catalog #100-0668

1 Unit

~25 µg (15 nmol)/peptide

## Product Description

CMV (pp65) Peptide Pool is a lyophilized mixture of 138 peptides from the 65 kDa phosphoprotein (pp65) of human cytomegalovirus (CMV; strain AD169). pp65 has been shown to counteract the induction of interferon response by preventing the activation of interferon response factor 3 (IRF-3) (Abate et al.). pp65 is also important in inducing transcription of viral immediate-early promoter (Cristea et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 561 on pp65. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating  $2.5 \times 10^8$  cells.

## Product Information

**Amino Acid Sequence:** MESRGRRCPEMISVLGPISGHVLKAVFSRGDTPVLPHETRLRLQTGIHVRSQPSLILVSQY  
TPDSTPCHRGDNLQVQHTYFTGSEVENSVNVHNPTGRSICPSQEPMSIYVYALPLK  
MLNIPSINVHHYPSAAERKRRHLPVADAVIHASGKQMWQARLTVSGLAWTRQQNQ  
WKEPDVYYTSAFVFPTKDVALRHVVCAHELVCSMENTRATKMQVIGDQYVKVYLES  
FCEDVPSGKLFMHVTLGSDVEEDLTMTRNPQPFMRPHERNGFTVLCPKNMIKPGKIS  
HIMLDVAFTSHEHFGLLCPKSIPGLSISGNLLMNGQQIFLEVQAIRETVELRQYDPVAALF  
FFDIDLLLQRGPQYSEHPTFTSQYRIQKLEYRHTWDRHDEGAAQGDVVWTSVSGSD  
SDEELVTTERKTPRVTGGGAMAGASTSAGRKRKSASSATACTSGVMTRGRLKAESTVAP  
EEDTDESDNEIHNPVFTWPPWQAGILARNLVPVATVQGGQNLKYQEFFWDANDI  
YRIFAELEGVWQPAAQPKRRRRHRQDALPGPCIASTPKKHRG

**Product Formulation:** Lyophilized as trifluoroacetate salts

**Source:** Human cytomegalovirus (strain AD169)

**Number of Peptides:** 138

**Protein ID:** P06725

**Protein Name:** 65 kDa phosphoprotein (pp65)

**Gene Name:** UL83

**Purity:** Average 70%

## Preparation and Storage

<b>Stability and Storage:</b>	Store at -20°C. Stable as supplied until expiry date (EXP) on label.
<b>Preparation:</b>	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.

## Related Products

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

## References

Abate DA et al. (2004) Major human cytomegalovirus structural protein pp65 (ppUL83) prevents interferon response factor 3 activation in the interferon response. *J Virol* 78(20): 10995–1006.

Cristea IM et al. (2010) Human cytomegalovirus pUL83 stimulates activity of the viral immediate-early promoter through its interaction with the cellular IFI16 protein. *J Virol* 84(15): 7803–14.

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