

# EBV (EBNA-1) Peptide Pool

Epstein-Barr virus (EBNA-1) peptide pool for immune cell activation

Catalog # 100-0669

1 Unit

~25 µg (15 nmol)/peptide

## Product Description

EBV (EBNA-1) Peptide Pool is a lyophilized mixture of 158 peptides from Epstein-Barr nuclear antigen 1 (EBNA-1) of Epstein-Barr virus (EBV; strain B95-8). EBNA-1 plays a critical role in the stable latent infection by EBV (Saridakis et al.) and may contribute to the survival of EBV-infected cells through its interaction with ubiquitin carboxyl-terminal hydrolase 7 (USP7; Lee et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 641 on EBNA-1. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating  $2.5 \times 10^8$  cells.

## Product Information

<b>Amino Acid Sequence:</b>	MSDEPGTGPGNGLGEKGDTSGPEGSGGSGPQRRGGDNHGRGRGRGRGGRRPGAPGGSGSGPRHR DGVRRPQKRPCIGCKGTHGGTGAGAGAGGAGAGGAGAGGGAGAGGGAGGAGGAGGAGAGGGAGAG GGAGGAGGAGAGGGAGAGGGAGGAGAGGGAGGAGAGGGAGAGGGAGGAGAGGGAGGAGGAGAG GGGAGAGGAGGAGGAGAGGGAGGAGGGAGGAGAGGGAGGAGAGGGAGGAGAGGGAGGAGGAGGAG GGAGGAGAGGGAGGAGAGGGAGGAGGGAGGAGAGGGAGGAGAGGGAGGAGAGGGAGGAGGAGGAG GGRGRGGSGRGRGGSGRGRGGSGRRGRGRERARGGSRERARGRGRGRGEKRPRSPSSQSS SSGSPRRPPGRRPFFHPVGEADYFEYHQEGGPDGEPDVPPGAIEQGPADDPGEGPSTGPRGQDGGRR KKGWFGKHRGQGSNPKFENIAEGLRALLARSHVERTTDEGTWVAGVFVYGGSKTSLYNLRRGTALAIQ CRLTPLSRLPFGMAPGPGPQPGPLRESIVCYFMVFLQTHIFAEVLKDAIKDLVMTKPAPTCNIRVTVCSFDDG VDLPPWFPPMVEGAAAEAGDDGDDGDEGGDGDEGEEGQE
<b>Product Formulation:</b>	Lyophilized as trifluoroacetate salts
<b>Source:</b>	Epstein-Barr virus (strain B95-8)
<b>Number of Peptides:</b>	158
<b>Protein ID:</b>	P03211
<b>Protein Name:</b>	Epstein-Barr nuclear antigen 1 (EBNA-1)
<b>Gene Name:</b>	EBNA-1
<b>Purity:</b>	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

Lee M-A et al. (1999) Genetic evidence that EBNA-1 is needed for efficient, stable latent infection by Epstein-Barr Virus. *J Virol* 73(4): 2974–82.

Saridakis V et al. (2005) Structure of the p53 binding domain of HAUSP/USP7 bound to Epstein-Barr nuclear antigen 1: Implications for EBV-mediated immortalization. *Mol Cell* 18(1): 25–36.

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