

# EBV (GP350/340) Peptide Pool

## Epstein-Barr virus (GP350/340) peptide pool for immune cell activation

Catalog #100-1390

~25 µg (15 nmol)/peptide



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## Product Description

EBV (GP350/340) Peptide Pool is a lyophilized mixture of 224 peptides from envelope glycoprotein GP350 (GP350/340) of Epstein-Barr virus (EBV; strain B95-8). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 907 on GP350/340. GP350 mediates EBV attachment to B lymphocytes via binding to the cell surface complement receptor type 2 (CR2; also known as C3d receptor or CD21) (Nemerow et al.; Tanner et al.). 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: 224

Source: Epstein-Barr virus (strain B95-8) (also known as human herpesvirus 4 [HHV-4])

Accession Number: P03200

Protein Name: Envelope glycoprotein GP350 (GP350/340)

Protein Sequence: MEAALLVCQYTIQSLIHLTGEDPGFFNVEIPEFFPYPTCNVCTADVNTINFDVGGKKHQLDLDFGQLTPHTKA  
VYQPRGAFGGSENATNLFLELLGAGELALTMRSKKLPINVTTGEEQQVSLESVDVYFQDVFGTMWCHHAEMQNP  
VYLIPETVPYIKWDNCNSTNITAWRAQGLDVTLPPLSLPTSAQDSNFSVKTEMLGNEIDIECIMEDGEISQVLPDGNKF  
NITCSGYESHVPSGGILTSTSPVATPIPGTGYAYSLRLTPRPVSRFLGNNISILYVFSGNGPKASGGDYCIQSNIVFSD  
EIPASQDMPTNTTDITYVGDNATYSVPMVTSEDANSPNVTVAFWAWPNNITETDFKCKWTLTSGTPSGCENISGAF  
ASNRFTDITVSGLGTA PKTLIITRTATNATTTTHKVIKFAPESTTTTSPTLNTTGFA DPNTTGLPSSTHVPTNLTA PAST  
GPTVSTADVTSPTPAGTTSGASPVTPSPSPWDNGTESKAPDMTSSTSPVTTPTPNATSPTPAVTTPTPNATSPTPAVT  
TPTPNATSPTLGKTSPTS AVTTPTPNATSPTLGKTSPTS AVTTPTPNATSPTLGKTSPTS AVTTPTPNATGPTVGETSP  
QANATNHTLGGTSPTPVVTSQPKNATSAVTTGQHNISSSTSSMSLRPSSNPETLSPSTSDNSTSHMPLLTSAHPTG  
GENITQVTPASISTHHVSTSSPAPRPGTTSQASGPGNSSTSTKPGEVNVTGKTPPQNATSPQAPSGQKTA VPTVTST  
GGKANSTTGGKHHTTGHGARTSTEPTTDYGGDSTTPRPRYNATTYLPSTSSKLRRPWTFTSPPVTTAQATVPVPPT  
SQPRFSNLSMLVLQWASLAVLTL LLLLVMADCAFRRLNSTSHTYTPPYDDAETYV

Gene Name: BLLF1

Purity: Average 70%

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.

## 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).

## References

Nemerow GR et al. (1987) Identification of gp350 as the viral glycoprotein mediating attachment of Epstein-Barr virus (EBV) to the EBV/C3d receptor of B cells: sequence homology of gp350 and C3 complement fragment C3d. *J Virol* 61(5): 1416–20.

Tanner J et al. (1987) Epstein-Barr virus gp350/220 binding to the B lymphocyte C3d receptor mediates adsorption, capping, and endocytosis. *Cell* 50(2): 203–13.

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