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EBV (BZLF1) Peptide Pool

Epstein-Barr virus (BZLF1) peptide pool for immune cell activation

Catalog #100-0670 | 1 Unit | ~25 µg (15 nmol)/peptide

Product Description

EBV (BZLF1) Peptide Pool is a lyophilized mixture of 59 peptides from trans-activator protein BZLF1 of Epstein-Barr virus (EBV; strain B95-8). BZLF1 is a DNA-binding protein that acts as a switch from latent infection to lytic infection (Packham et al.; Wen et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 245 on BZLF1. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating 2.5 x 10^8 cells.

Product Information

Amino Acid Sequence: MMDPNSTSEDVKFTPDPYQVPFVQAFDQATRVYQDLGGPSQAPLPCVLWPVLPEPLPQGQLTAYHVSTAP TGSWFSAPQPAPENAYQAYAAPQLFPVSDITQNQQTNQAGGEAPQPGDNSTVQTAAAVVFACPGANQGQ QLADIGVPQPAPVAAPARRTRKPQQPESLEECDSELEIKRYKNRVASRKCRAKFKQLLQHYREVAAAKSSEN DRLRLLLKQMCPSLDVDSIIPRTPDVLHEDLLNF

Product Formulation: Lyophilized as trifluoroacetate salts

Source: Epstein-Barr virus (strain B95-8)

Number of Peptides: 59

Protein ID: P03206

Protein Name: Trans-activator protein BZLF1

Gene Name: BZLF1

Purity: Average 70%

Preparation and Storage

Stability and Storage: Store at -20°C. 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 cytokines or peptide pools, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/cytokines or contact us at techsupport@stemcell.com.

References

Packham G et al. (1990) Structure and function of the Epstein-Barr virus BZLF1 protein. J Virol 64(5): 2110–6.

Wen W et al. (2007) Epstein-Barr virus BZLF1 gene, a switch from latency to lytic infection, is expressed as an immediate-early gene after primary infection of B- lymphocytes. J Virol 81(2): 1037–42.

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