EBV (EBNA-3B) Peptide Pool

Epstein-Barr virus (EBNA-3B) peptide pool for immune cell activation

Catalog #100-1387 ~25 µg (15 nmol)/peptide



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Product Description

EBV (EBNA-3B) Peptide Pool is a lyophilized mixture of 234 peptides from Epstein-Barr nuclear antigen 3B (EBNA-3B) of Epstein-Barr virus (EBV; strain AG876). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 946 on EBNA-3B. EBNA-3B is considered nonessential for B cell growth transformation (Chen et al., 2005; Tomkinson & Kieff) but has been shown to regulate the expression of cellular genes in EBV-infected cells (Chen at al., 2006). One unit of this product (i.e. \sim 25 µg/peptide) is sufficient for stimulating 2.5 x 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: 234

Source: Epstein-Barr virus (strain AG876) (also known as human herpesvirus 4 [HHV-4])

Accession Number: Q1HVG4

Protein Name: Epstein-Barr nuclear antigen 3B (EBNA-3B); Epstein-Barr nuclear antigen 4 (EBNA-4)

Protein Sequence: MKKAWLSRAQQADAGGASGSEDPPDYGDQGNVQQVGSDPISPAIGPFELSAASEDDPQSGPVEENLDAAAREE

EEPDEQEHNGGDDPLEVHTRQPRFVDVNPTQAPVIQLVHAVYDSMLQSDLRSLGSLFLEQNLNIEEFIWMCMTVR HRCQAIRQKPLPIDKQRRWKLLSPYRTWRMGYRTQTLNVNSFETGGDKVHPLLVTATLGCEEGLRHAITYSAGIVQ LPRMSDQNQKIETAFLMARRARSLSAERYTLFFDLVSSGNTLYAIWIGLGTRNRVAFVEFVGWLCKKDHTHIREWF RQCTGRPSPSKPWMRAHPVAVPYDDPLTSEETDLAYARGLAMSIEAARLPDDPIIVEDDDESEEIEDKCDKDEESS GTEDVTSIPQTLPHSPTVYGRPSVFYRKPDTKSTKKCRAIVTDLSIIKVIEDEHRKKKTARTEQPRAKPDSPAPTVVLR RPPTQKVTGPAGSLSVQAQLEPWQPLSWPHETRVILHGPPTQGDQAHGSMLDLLEKDDQHMEQQVMATLLPPE PHQPRSGRRAPCVYTADLDIESDEPATSEPVLDQLLPAPGLGPLAIQPLTSPTTSQLRSSAPSHAQTPWPVTHPSQT PGGPTTQSLAPETEAPRQWPMPLRPIPLHPLRMQPISFNPAVRPTPHQPPQVEPTFYQSTWVKPPQQYQPQMGHI PYQPRPTGHSTMLRPQWAPTTMQPPPRAPTPMPPPQGPPTAMQRPQGAPTPMPPPQGPPTAMQRPRGAPTPMPPPQGPPTAMQLSPRALTGQKGPAKHILRQLLTGGVKSGRPSLKFKAALERQAAAGLRPSPGSGTGAKIVQAPVFY PPVLQPIQVMWQVGSSKAVAASTVTQAPTEYTGERRLGGPMSPTDIPPSKRVKKKAYPERKTPHGGPSHSSTVMW

ENVSQGQQQTLECGGTDKQERNMLGMGDIAVSSPSSSETSNDE

Gene Name: EBNA4
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.

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Related Products

For a complete list of peptide pools, as well as related products available from STEMCELL Technologies, visit www.stemcell.com, or contact us at techsupport@stemcell.com.

References

Chen A et al. (2005) Epstein-Barr virus with the latent infection nuclear antigen 3B completely deleted is still competent for B-cell growth transformation in vitro. J Virol 79(7): 4506–9.

Chen A et al. (2006) EBNA-3B-and EBNA-3C-regulated cellular genes in Epstein-Barr virus-immortalized lymphoblastoid cell lines. J Virol 80(20): 10139–50.

Tomkinson B & Kieff E. (1992) Use of second-site homologous recombination to demonstrate that Epstein-Barr virus nuclear protein 3B is not important for lymphocyte infection or growth transformation in vitro. J Virol 66(5): 2893–903.

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