

EBV (LMP2A) Peptide Pool

Epstein-Barr virus (LMP2A) peptide pool for immune cell activation

Catalog #100-1389

~25 µg (15 nmol)/peptide



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Product Description

EBV (LMP2A) Peptide Pool is a lyophilized mixture of 27 peptides from latent membrane protein 2A (LMP2A) of Epstein-Barr virus (EBV; strain GD1). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 118 on LMP2A. LMP2A contributes to the survival of EBV-transformed B cells (Mancao & Hammerschmidt) and mediates partial escape of infected B cells from recognition by EBV-specific CD8+ T cells (Rancan et al). One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating 2.5×10^8 cells.

APPLICATIONS

- Antigen-specific T cell stimulation
- Cellular immune response
- Immune monitoring
- T cell assays
- T cell expansion

Product Information

Number of Peptides:	27
Source:	Epstein-Barr virus (strain GD1) (also known as human herpesvirus 4 [HHV-4])
Accession Number:	A8CDV5
Protein Name:	Latent membrane protein 2A (LMP2A)
Protein Sequence:	MGSLMVMGAGPPSPGGDPDGGNNSQYPSASGSSGNTPTPPNDEERESNEEPPPPYEDPYWGNGDRHS DYQPLGTQDQSLYLGLQHDGNDGLPPPPYSPRDDSSQHIYEEAGRG
Gene Name:	LMP2A
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, or contact us at techsupport@stemcell.com.

References

Mancao C & Wolfgang H. (2007) Epstein-Barr virus latent membrane protein 2A is a B-cell receptor mimic and essential for B-cell survival. *Blood* (110)10: 3715–21.

Rancan Cet al. (2015) Latent membrane protein LMP2A impairs recognition of EBV-infected cells by CD8+ T cells. *PLoS Pathog* 11(6): e1004906.

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