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EBV (LMP2) Peptide Pool

Epstein-Barr virus (LMP2) peptide pool for immune cell activation

Catalog #100-0671 1 Unit ~25 µg (15 nmol)/peptide

Product Description

EBV (LMP2) Peptide Pool is a lyophilized mixture of 122 peptides from latent membrane protein 2 (LMP2) of Epstein-Barr virus (EBV; strain B95-8). LMP2 is expressed in EBV latency, as well as in EBV-associated pathologies (Lee et al.; Longnecker) and it blocks reactivation of EBV from latency (Miller et al.). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 497 on LMP2. 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:
MGSLEMVPMGAGPPSPGGDPDGYDGGNNSQYPSASGSSGNTPTPPNDEERESNEEPPPPYEDPYW
GNGDRHSDYQPLGTQDQSLYLGLQHDGNDGLPPPPYSPRDDSSQHIYEEAGRGSMNPVCLPVIVAPY
LFWLAAIAASCFTASVSTVVTATGLALSLLLLAAVASSYAAAQRKLLTPVTVLTAVVTFFAICLTWRIEDPP
FNSLLFALLAAAGGLQGIYVLVMLVLLILAYRRRWRRLTVCGGIMFLACVLVLIVDAVLQLSPLLGAVTVVS
MTLLLLAFVLWLSSPGGLGTLGAALLTLAAALALLASLILGTLNLTTMFLLMLLWTLVVLLICSSCSSCPLSK
ILLARLFLYALALLLLASALIAGGSILQTNFKSLSSTEFIPNLFCMLLLIVAGILFILAILTEWGSGNRTYGPVFM
CLGGLLTMVAGAVWLTVMSNTLLSAWILTAGFLIFLIGFALFGVIRCCRYCCYYCLTLESEERPPTPYRNTV

Product Formulation: Lyophilized as trifluoroacetate salts

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

Number of Peptides: 122

Protein ID: P13285

Protein Name: Latent membrane protein 2 (LMP2)

Gene Name: LMP2

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

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.

Longnecker R. (2000) Epstein-Barr virus latency: LMP2, a regulator or means for Epstein-Barr virus persistence. Adv Cancer Res 79: 175–200.

Miller CL et al. (1994) An integral membrane protein (LMP2) blocks reactivation of Epstein-Barr virus from latency following surface immunoglobulin crosslinking. Proc Natl Acad Sci USA 91(2): 772–6.