

HBV (HLA Class I Control) Peptide Pool

Hepatitis B virus (HBV) control peptide pool for immune cell activation

Catalog #100-0673

1 Unit

~25 µg (15nmol)/peptide

Product Description

HBV (HLA Class I Control) Peptide Pool is a lyophilized mixture of 9 peptides from the hepatitis B virus (HBV). The pool consists of defined HLA class I-restricted T cell epitopes, and can be used as an antigen-specific positive control to stimulate T cells. One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating 2.5×10^8 cells.

Product Information

Product Formulation:	Lyophilized as trifluoroacetate salts
Source:	Hepatitis B virus
Number of Peptides:	9
Purity:	≥ 95%

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.

Peptide Sequence

No.	Sequence	Length	C-Terminus	Source
1	FLLSLGIHL	9	-COOH	HBV polymerase 575-583 HLA-A*02:01
2	FLLTRILTI	9	-COOH	HBV envelope 183-191 HLA-A*02:01
3	FLPSDFFPSI	10	-COOH	HBV core 18-27 (subtype ADR4) HLA-A*02:01
4	FLPSDFFPSV	10	-COOH	HBV core 18-27 HLA-A*02:01
5	GLSPTVWLSV	10	-COOH	HBV envelope 348-357 HLA-A*02:01

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No.	Sequence	Length	C-Terminus	Source
6	WLSLLVPFV	9	-COOH	HBV envelope 335-343 HLA-A*02:01
7	YVNVNMGLK	9	-COOH	HBV core antigen 88-96 HLA-A*11:01
8	EYLVSFGVW	9	-COOH	HBV core 117-125 HLA-A*24:02
9	KYTSFPWLL	9	-COOH	HBV polymerase 756-764 HLA-A*24:02

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.

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