

HIV (HLA Class I Control) Peptide Pool

Human immunodeficiency virus control peptide pool for immune cell activation

Catalog #100-1384

~25 µg (15 nmol)/peptide



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Product Description

HIV (HLA Class I Control) Peptide Pool is a lyophilized mixture of 22 peptides from human immunodeficiency virus (HIV). The pool consists of defined HLA class I-restricted T cell epitopes, and it 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

Number of Peptides: 22
Source: Human immunodeficiency virus
Purity: ≥ 95%
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.

Peptide Sequences

NO.	SEQUENCE	LENGTH	SOURCE
1	GLADQLIHL	9	HIV-1 Vif 101 - 109
2	ILKEPVHGV	9	HIV-1 RT 476 - 484
3	KLTPLCVTL	9	HIV-1 Env gp120 90 - 98
4	LTFGWCFKL	9	HIV-1 Nef 137 - 145
5	SLYNTVATL	9	HIV-1 Gag p17 77 - 85
6	TLNAWVKVV	9	HIV-1 Gag p24 19 - 27
7	QVPLRPMTYK	10	HIV-1 Nef 73 - 82
8	RLRPGGKKK	9	HIV-1 Gag p17 20 - 28
9	RYLKDQQLL	9	HIV-1 Env gp160 585 - 593
10	RYPLTFGWCY	10	HIV-1 Nef 134 - 143
11	GPGHKARVL	9	HIV-1 Gag p24 223 -231
12	IPRRIRQGL	9	HIV-1 Env gp120 843 - 851

NO.	SEQUENCE	LENGTH	SOURCE	
13	TPGPGVRYPL	10	HIV-1 Nef 128 - 137	HLA-B*07:02
14	FLKEKGGL	8	HIV-1 Nef 90 - 97	HLA-B*08:01
15	GEIYKRWII	9	HIV-1 Gag p24 261 - 269	HLA-B*08:01
16	RLRPGGKKKY	10	HIV-1 p17 20 - 29	HLA-B*15:01
17	GRAFVTIGK	9	HIV-1 Env 314 - 322	HLA-B*27:05
18	KRWIILGLNK	10	HIV-1 Gag p24 263 - 272	HLA-B*27:05
19	KRWIIMGLNK	10	HIV-1 Gag p24 263 - 272	HLA-B*27:05
20	NPDIVIQY	9	HIV-1 RT 330 - 338	HLA-B*35:01
21	VPLDEDFRKY	10	HIV-1 RT 273 - 282	HLA-B*35:01
22	KEKGGLEGL	9	HIV-1 Nef 92 - 100	HLA-B*40:01

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.

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