HHV8 (K8.1) Peptide Pool

Human herpesvirus 8 (K8.1) peptide pool for immune cell activation

Catalog #100-1404 ~25 µg (15 nmol)/peptide

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Product Description

HHV8 (K8.1) Peptide Pool is a lyophilized mixture of 55 peptides from glycoprotein K8.1 of human herpesvirus 8 (HHV8). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 228 on K8.1. K8.1 is a viral envelope protein that is expressed in the late-lytic phase (Zoeteweij et al.). K8.1 binds to cell surface heparin sulfate and facilitates HHV8 infection (Birkmann et al.; Wang et al.). One unit of this product (i.e. 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:	55
Source:	Human herpesvirus 8 (also known as Kaposi's sarcoma-associated herpesvirus [KSHV])
Accession Number:	O36551
Protein Name:	Glycoprotein K8.1
Protein Sequence:	MSSTQIRTEIPVALLILCLCLVACHANCPTYRSHLGFWQEGWSGQVYQDWLGRMNCSYENMTALEAVSLNGTRLA AGSPSSEYPNVSVSVEDTSASGSGEDAIDESGSGEEERPVTSHVTFMTQSVQATTELTDALISAFSGSYSSGEPSRT TRIRVSPVAENGRNSGASNRVPFSATTTTTRGRDAHYNAEIRTHLYILWAVGLLLGLVLILYLCVPRCRRKKPYIV
Gene Name:	K8.1
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

Birkmann A et al. (2001) Cell surface heparan sulfate is a receptor for human herpesvirus 8 and interacts with envelope glycoprotein K8.1. J Virol 75(23): 11583–93.

Wang FZ et al. (2001) Human herpesvirus 8 envelope glycoprotein K8.1A interaction with the target cells involves heparan sulfate. J Virol 75(16): 7517–27.

Zoeteweij JP et al. (1999) Identification and rapid quantification of early-and late-lytic human herpesvirus 8 infection in single cells by flow cytometric analysis: characterization of antiherpesvirus agents. J Virol 73(7): 5894–902.