

HHV6 (U90) Peptide Pool

Human herpesvirus 6B (U90) peptide pool for immune cell activation

Catalog #100-1402

~25 µg (15 nmol)/peptide



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Product Description

HHV6 (U90) Peptide Pool is a lyophilized mixture of 267 peptides from protein U90 of human herpesvirus 6B (HHV-6B; strain Z29). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 1078 on U90. U89 - U90 RNA expression occurs under immediate-early conditions of infection (Mirandola et al.), and the associated protein exhibits peri-nuclear and cytoplasmic localization (Nikolaou et al.). Also known as immediate-early protein IE1, latency-associated transcripts of HHV6 may function as a source of IE1 during viral reactivation (Kondo 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:	267
Source:	Human herpesvirus 6 variant B (strain Z29) (also known as human B lymphotropic virus [HBLV])
Accession Number:	Q77PU6
Protein Name:	Immediate-early protein (IE1); Protein U90
Protein Sequence:	MESAKDTTSTSMFILGKPSGNNMESNEERMQNYHPDPVVEESIKEILEESLKCDVSFESLLFPELEAFDLFIPESSNDI ASKNVSYSSNVEEGASDEFKTLVAQSVGNCIQSIGASVKAAMKQECSNMEDNLINSAGLLTLHRSMLERLVLEQLG QLININLLSSASSQFVSCYAKMLSGKNLDFFNWCEPRFIVFACDKFDGLVKKIASESRDLLMDLKANMNNQFITALK NIFSKAYVALDSGKLN MVATSLLLMAHNKEMSNPEISNKEFCQVNLKQELLESNEIENHVKNMKMFQEFANK QMNQIFMDNCDKTFKLIHINCKNLITAAKNIGI AVLQSIVLCSNEFSWQYLKPRRHQFKITMMNMITHACECIETIYD DTGLIKPLTSSDIMEGYIAINKNRESSICDLNIDPSESILLELADFDEHGKYSEESSIESIHEDDNDVDLYKYMEVQSPT DNNIPTPSKNNESPTRQKLTNIHEKDVGMYPDTPSPDVP GKSKEAKTFIEYSRQIGKEQTSPNCVCTASVTDLGGP DNFKSITGLESKGHFLIKLLETQPD SVVETGSGQQDILAYSPDKRSQTKEWIQEKG SNSKCTETLPGMTFTNSAT PVKSHGAIQDTLNPESKLDKEMEAVESLVNLCDFHFNPLISEMITFGYETDHSAPYSESNDNDET DYIADCSTV RTNNIHMNNTNENTPFSKSLYSPPEVTPSKEDHKTEKIVAVSQKCKSKRTAKRKNVPIKPSKSKKIKLDRLPETTNI VISSESEDEEDGNNIIDKSMLEKTIKSEPNSSESSSESDDCTSEDNYLHLSYDQKVINNGHCQSKGFPSPVFTPIRSMP GTHDIRNKFVPKHHWLWFM RKTHKVDN CVIHSSAKMNVKNDSDVTEANHC FINHFVPIKTDDEEYKENVSYTYSK IQDSKTDLEDITPTKKLITEMVMENFMDLTDIIKHGIAKHCQDLSSKYTVITHACEKNLNVANSQNLVTAETQIFDPQ GTGNNSPILNIINDTTCQNDENRCTEGTSNDNEKCTIRSDCNSDKMEVFKLDGYPSDYDPFEENAQIY
Gene Name:	U90
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

Kondo K et al. (2003) Recognition of a novel stage of betaherpesvirus latency in human herpesvirus 6. *J Virol* 77(3): 2258–64.

Mirandola P et al. (1998) Temporal mapping of transcripts in herpesvirus 6 variants. *J Virol* 72(5): 3837–44.

Nikolaou K et al. (2003) Identification and characterization of gene products of ORF U90/89 of human herpesvirus 6. *Acta Virol* 47(1): 17–26.

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