# VZV (gE) Peptide Pool

**Varicella-zoster virus (envelope glycoprotein E) peptide pool for immune cell activation**

Catalog #100-1408 ~25 µg (15 nmol)/peptide

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## Product Description

VZV (gE) Peptide Pool is a lyophilized mixture of 153 peptides from the envelope glycoprotein E (gE) of varicella-zoster virus (VZV; strain Dumas). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 623 on gE. gE is essential for VZV replication (Mo et al., 2002) and may contribute to viral pathogenesis by facilitating epithelial cell-cell contacts (Mo et al., 2000). 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

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| Number of Peptides: | 153 |
| Source: | Varicella-zoster virus (strain Dumas) (also known as human herpesvirus 3 [HHV-3]) |
| Accession Number: | P09259 |
| Protein Name: | Envelope glycoprotein E (gE) |
| Protein Sequence: | MGTVNKPVVGVLMGFGIITGTLRITNPVRASVLRYDDFHTDEDKLDTNSVYEPYYHSDHAESSWVNRGESSRKAYD HNSPYIWPRNDYDGFLENAHEHHGVYNQGRGIDSGERLMQPTQMSAQEDLGDDTGIHVIPTLNGDDRHKIVNVD QRQYGDVFKGDLNPKPQGQRLIEVSVEENHPFTLRAPIQRIYGVRYTETWSFLPSLTCTGDAAPAIQHICLKHTTCF QDVVVDVDCAENTKEDQLAEISYRFQGKKEADQPWIVVNTSTLFDELELDPPEIEPGVLKVLRTEKQYLGVYIWNMR GSDGTSTYATFLVTWKGDEKTRNPTPAVTPQPRGAEFHMWNYHSHVFSVGDTFSLAMHLQYKIHEAPFDLLLEWL YVPIDPTCQPMRLYSTCLYHPNAPQCLSHMNSGCTFTSPHLAQRVASTVYQNCEHADNYTAYCLGISHMEPSFGLI LHDGGTTLKFVDTPESLSGLYVFVVYFNGHVEAVAYTVVSTVDHFVNAIEERGFPPTAGQPPATTKPKEITPVNPGTS PLLRYAAWTGGLAAVVLLCLVIFLICTAKRMRVKAYRVDKSPYNQSMYYAGLPVDDFEDSESTDTEEEFGNAIGGS HGGSSYTVYIDKTR |
| Gene Name: | gE |
| Purity: | Average 70% |
| Formulation: | Lyophilized as trifluoroacetate salts |

## Preparation and Storage

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| 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

Mo C et al. (2000) Glycoprotein E of varicella-zoster virus enhances cell-cell contact in polarized epithelial cells. J Virol 74(23):11377–87.

Mo C et al. (2002) The requirement of varicella zoster virus glycoprotein E (gE) for viral replication and effects of glycoprotein I on gE in melanoma cells. Virology 304(2): 176–86.