

T-Select PEPTIDE

Influenza HA₃₀₆₋₃₁₈ Peptide

PKYVKQNTLKLAT

Code No.	Quantity	Concentration
TS-M804-P	100 µL	10 mg/mL

For Research Use Only. Not for administration to humans, and not for diagnostic or therapeutic use.

Peptide Sequence: PKYVKQNTLKLAT (13 aa)

Origin: Influenza A/Trieste/48/2005 (H3N2)
Influenza A/duck/Hokkaido/8/1980 (H3N8)
Hemagglutinin 306-318 aa

Molecular Weight: 1,503.81 Da

Purity: ≥90%

Formulation: 10 mg/mL peptide solution in DMSO
Handle using aseptic techniques to avoid contamination.

Storage Conditions

Store at -20°C. Repeated freeze-thaw cycles should be avoided.

Background

T lymphocytes play a central role in the immune system. Major histocompatibility complex (MHC) is important for T cell recognition of surface antigen. In humans, MHC is also called human leukocyte antigen (HLA). MHCs present epitope peptides derived from both self and non-self protein, and these MHC/peptide complexes are recognized by T cells via their T-cell receptors (TCRs). In general, CD8⁺ cytotoxic T cells (CTLs) recognize the MHC class I/peptide complex and CD4⁺ helper T cells recognize MHC class II/peptide complex. Epitope peptides binding to class I molecules typically consist of approximately 8 to 10 consecutive amino acid residues. Meanwhile, epitope peptides binding to class II molecules are not constrained in size and can vary from 11 to 30 amino acids long.

T-Select PEPTIDE is a ready-to-use epitope peptide in liquid form and this peptide is used to produce MHC Tetramer reagent. Epitope peptides enable to stimulate CTLs in an antigen-specific manner, and also to induce T-helper immunity.

Therefore, T-Select PEPTIDE series are available for T cell stimulation and expansion to examine T cell functions such as cytokine production, expression of cell surface marker, cytotoxic activity, etc.

HLA-DRB Influenza HA₃₀₆₋₃₁₈ Tetramers

TS-M804-1	HLA-DRB1*01:01 Influenza HA ₃₀₆₋₃₁₈	Tetramer-PE
TS-M804-2	HLA-DRB1*01:01 Influenza HA ₃₀₆₋₃₁₈	Tetramer-APC
TS-M806-1	HLA-DRB1*04:05 Influenza HA ₃₀₆₋₃₁₈	Tetramer-PE
TS-M806-2	HLA-DRB1*04:05 Influenza HA ₃₀₆₋₃₁₈	Tetramer-APC
TS-M808-1	HLA-DRB1*11:01 Influenza HA ₃₀₆₋₃₁₈	Tetramer-PE
TS-M808-2	HLA-DRB1*11:01 Influenza HA ₃₀₆₋₃₁₈	Tetramer-APC
TS-M810-1	HLA-DRB1*04:01 Influenza HA ₃₀₆₋₃₁₈	Tetramer-PE
TS-M810-2	HLA-DRB1*04:01 Influenza HA ₃₀₆₋₃₁₈	Tetramer-APC

References for This Product

- 1) Iyasere C, *et al. J Virol* **77**: 10900-10909 (2003)
- 2) Scriba TJ, *et al. J Clin Invest* **115**: 443-450 (2005)
- 3) Scriba TJ, *et al. J Immunol* **175**: 6334-6343 (2005)
- 4) Younes SA, *et al. J Immunol* **178**: 788-797 (2007)
- 5) Kanmian P, *et al. J Immunol* **179**: 6336-6342 (2007)

Related Products

Please check our web site (<https://ruo.mbl.co.jp>) for up-to-date information on products and custom MHC Tetramers.

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