

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: 1,504 Da

Purity: ≥95%

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

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

MHC Class I Influenza Tetramers for Human

TS-M045-1	HLA-A*01:01 Influenza NP Tetramer-CTELKLSDY-PE
TS-0012-1C	HLA-A*02:01 Influenza M1 Tetramer-GILGFVFTL-PE
TS-M162-1	HLA-A*02:01 Influenza M1 ₅₉₋₆₈ Tetramer-ILGFVFTLV-PE
TS-M163-1	HLA-A*02:01 Influenza NS1 ₁₂₂₋₁₃₀ Tetramer-AIMDKNIIL-PE
TB-0103-1	HLA-A*03:01 Influenza NP Tetramer-ILRGSVAHK-PE
TS-M144-1	HLA-A*24:02 Influenza PA ₁₃₀₋₁₃₈ Tetramer-YYLEKANKI-PE
TS-M145-1	HLA-A*24:02 Influenza PB1 ₂₁₆₋₂₂₄ Tetramer-SYLIRALTL-PE
TS-M146-1	HLA-A*24:02 Influenza PB1 ₄₃₀₋₄₃₈ Tetramer-RYTKTTYWW-PE
TS-M147-1	HLA-A*24:02 Influenza PB1 ₄₈₂₋₄₉₀ Tetramer-SYINRTGTF-PE
TS-M148-1	HLA-A*24:02 Influenza PB1 ₄₉₈₋₅₀₅ Tetramer-RYGFVANF-PE
TS-M149-1	HLA-A*24:02 Influenza PB2 ₅₄₉₋₅₅₇ Tetramer-TYQWIIRNW-PE
TB-0111-1	HLA-B*27:05 Influenza NP Tetramer-SRYWAIIRTR-PE
TB-M046-1	HLA-B*35:01 Influenza NP Tetramer-LPFEKSTVM-PE

MHC Class I Influenza Tetramers for Mouse

TS-M502-1	H-2D ^b Influenza NP Tetramer-ASNENMDTM-PE
TS-M508-1	H-2D ^b Influenza NP Tetramer-ASNENMETM-PE
TS-M527-1	H-2D ^b Influenza NP Tetramer-ASNENMDAM-PE
TS-M528-1	H-2D ^b Influenza PA Tetramer-SSLENFRAYV-PE
TS-M533-1	H-2K ^b Influenza PB1 Tetramer-SSYRRPVGI-PE
TS-M566-1	H-2K ^b Influenza NS2 Tetramer-RTFSFQLI-PE
TS-M520-1	H-2K ^d Influenza HA Tetramer-IYSTVASSL-PE
TS-M535-1	H-2K ^d Influenza HA Tetramer-LYQNVGTYY-PE
TB-M534-1	H-2K ^d Influenza NP Tetramer-TYQRTRALV-PE

MHC Class I Control Tetramers

TS-0029-1C	HLA-A*02:01 Negative Tetramer-PE
TS-M151-1	HLA-A*02:01 Control Tetramer-ALAAAAAAV-PE
TS-M152-1	HLA-A*11:01 Control Tetramer-ATAAAAAAK-PE
TS-M153-1	HLA-A*24:02 Control Tetramer-AYAAAAAAL-PE
TS-M007-1	HLA-A*24:02 Negative Tetramer-RYLRDQQLL-PE
TS-M008-1	H-2K ^b Negative (SIY) Tetramer-SIYRYGYL-PE
TS-M501-1	H-2K ^b β-galactosidase Tetramer-DAPIYTNV-PE
TS-M511-1	H-2L ^d β-galactosidase Tetramer-TPHPARIGL-PE
TS-M525-1	H-2K ^d EGFP Tetramer-HYLSTQSAL-PE

MHC Class II Influenza Tetramers for Human

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

MHC Class II Tetramers for Human

TS-M803-1	HLA-DRB1*01:01 EBV EBNA1 ₅₁₅₋₅₂₇ Tetramer-PE
TS-M813-1	HLA-DRB1*01:01 Fel d 1 ₄₉₋₆₆ Tetramer-PE
TS-M802-1	HLA-DRB1*01:01 HIV gag ₂₉₅₋₃₀₇ Tetramer-PE
TS-M815-1	HLA-DRB1*01:01 HTLV-1 Tax ₁₅₅₋₁₆₇ Tetramer-PE
TS-M811-1	HLA-DRB1*04:01 GAD65 ₅₅₅₋₅₆₇ Tetramer-PE
TS-M814-1	HLA-DRB1*04:01 Lol p 1 ₁₀₅₋₁₁₇ Tetramer-PE
TS-M812-1	HLA-DRB1*11:01 TT p2 ₈₂₉₋₈₄₄ Tetramer-PE
TS-M818-1	HLA-DRB1*15:01 Bet v 1 ₁₄₂₋₁₅₆ Tetramer-PE

MHC Class II Control Tetramers for Human

TS-M801-1	HLA-DRB1*01:01 human CLIP ₁₀₃₋₁₁₇ Tetramer-PE
TS-M809-1	HLA-DRB1*04:01 human CLIP ₁₀₃₋₁₁₇ Tetramer-PE
TS-M805-1	HLA-DRB1*04:05 human CLIP ₁₀₃₋₁₁₇ Tetramer-PE
TS-M807-1	HLA-DRB1*11:01 human CLIP ₁₀₃₋₁₁₇ Tetramer-PE
TS-M816-1	HLA-DRB1*15:01 human CLIP ₁₀₃₋₁₁₇ Tetramer-PE
TS-M817-1	HLA-DRB1*15:02 human CLIP ₁₀₃₋₁₁₇ Tetramer-PE

MHC Class II Influenza and Control Tetramers for Mouse

TS-M716-1	I-A ^b Influenza A NP ₃₁₁₋₃₂₅ Tetramer-PE
TS-M715-1	I-A ^b human CLIP ₁₀₃₋₁₁₇ Tetramer-PE

T-Select PEPTIDES

TS-0012-P	HLA-A*02:01 Influenza M1 peptide, GILGFVFTL
TS-M502-P	H-2D ^b Influenza NP peptide, ASNENMDTM
TS-M508-P	H-2D ^b Influenza NP peptide, ASNENMETM
TS-M527-P	H-2D ^b Influenza NP peptide, ASNENMDAM
TS-M534-P	H-2K ^d Influenza NP peptide, TYQRTRALV
TS-M520-P	H-2K ^d Influenza HA peptide, IYSTVASSL
TS-M528-P	H-2D ^b Influenza PA peptide, SSLENFRAYV
TS-M804-P	Influenza HA ₃₀₆₋₃₁₈ peptide
TS-M716-P	I-A ^b Influenza NP ₃₁₁₋₃₂₅ peptide
TS-M151-P	HLA-A*02:01 Control peptide, ALAAAAAAV
TS-M152-P	HLA-A*11:01 Control peptide, ATAAAAAAK
TS-M153-P	HLA-A*24:02 Control peptide, AYAAAAAAL
TS-M525-P	H-2K ^d EGFP peptide, HYLSTQSAL
TS-M501-P	H-2K ^b β-galactosidase peptide, DAPIYTNV
TS-M511-P	H-2L ^d β-galactosidase peptide, TPHPARIGL
TS-M008-P	H-2K ^b SIY peptide, SIYRYGYL
TS-M801-P	Human CLIP ₁₀₃₋₁₁₇ peptide

Kits

4844	IMMUNOCYTO CD107a Detection Kit
4901	RapiType HLA-A for East Asian Pop.
AM-1005M	IMMUNOCYTO Cytotoxicity Detection Kit
TB-7300-K1	QuickSwitch™ Quant HLA-A*02:01 Tetramer Kit-PE
TB-7300-K2	QuickSwitch™ Quant HLA-A*02:01 Tetramer Kit-APC
TB-7300-K4	QuickSwitch™ Quant HLA-A*02:01 Tetramer Kit-BV421
TB-7301-K1	QuickSwitch™ HLA-A*02:01 Tetramer Kit-PE
TB-7301-K2	QuickSwitch™ HLA-A*02:01 Tetramer Kit-APC
TB-7301-K4	QuickSwitch™ HLA-A*02:01 Tetramer Kit-BV421
TB-7302-K1	QuickSwitch™ Quant HLA-A*24:02 Tetramer Kit-PE
TB-7302-K2	QuickSwitch™ Quant HLA-A*24:02 Tetramer Kit-APC
TB-7302-K4	QuickSwitch™ Quant HLA-A*24:02 Tetramer Kit-BV421
TB-7303-K1	QuickSwitch™ HLA-A*24:02 Tetramer Kit-PE
TB-7303-K2	QuickSwitch™ HLA-A*24:02 Tetramer Kit-APC
TB-7303-K4	QuickSwitch™ HLA-A*24:02 Tetramer Kit-BV421
TB-7400-K1	QuickSwitch™ Quant H-2K ^b Tetramer Kit-PE
TB-7400-K2	QuickSwitch™ Quant H-2K ^b Tetramer Kit-APC
TB-7400-K4	QuickSwitch™ Quant H-2K ^b Tetramer Kit-BV421
TB-7401-K1	QuickSwitch™ H-2K ^b Tetramer Kit-PE
TB-7401-K2	QuickSwitch™ H-2K ^b Tetramer Kit-APC
TB-7401-K4	QuickSwitch™ H-2K ^b Tetramer Kit-BV421

Others

6603861	CD8-FITC (T8)
6607011	CD8-PC5 (T8)
IM-0398	Anti-CD4 (Human) mAb
A07751	Anti-CD4 (Human) mAb-PE
A07750	Anti-CD4 (Human) mAb-FITC
A07704	7-AAD Viability Dye
MTG-001	Clear Back (Human FcR blocking reagent)

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