

T-Select PEPTIDE

# HLA-A\*02:01 Influenza M1

## Peptide GILGFVFTL

Code No.	Quantity	Concentration
TS-0012-P	100 µL	10 mg/mL

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

**Peptide Sequence:** GILGFVFTL (9 aa)

functions such as cytokine production, expression of cell surface marker, cytotoxic activity, etc.

**Origin:** Influenza A/X31 (H3N2),  
Influenza A/Puerto Rico/8/1934 (PR8, H1N1)  
Matrix protein 1 (M1), 58-66 aa

Please refer to the data sheet of MHC Tetramer reagent which comprises this epitope peptide and HLA-A\*02:01 (MBL, PN TS-0012-1C) for more details.

**HLA Restriction:** HLA-A\*02:01

**Molecular Weight:** 966.19 Da

**Purity:** ≥90%

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

### HLA-A\*02:01 Influenza M1 Tetramers

TS-0012-1C HLA-A\*02:01 Influenza M1 Tetramer-GILGFVFTL-PE  
TS-0012-2C HLA-A\*02:01 Influenza M1 Tetramer-GILGFVFTL-APC  
TB-0012-4 HLA-A\*02:01 Influenza M1 Tetramer-GILGFVFTL-BV421  
TS-M162-1 HLA-A\*02:01 Influenza M1<sub>59-68</sub> Tetramer-ILGFVFTLTV-PE  
TS-M162-2 HLA-A\*02:01 Influenza M1<sub>59-68</sub> Tetramer-ILGFVFTLTV-APC  
TB-0165-4 HLA-A\*02:01 Influenza M1 Tetramer-ILGFVFTLTV-BV421

### Storage Conditions

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

### References for This Epitope

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### 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<sup>+</sup> cytotoxic T cells (CTLs) recognize the MHC class I/peptide complex and CD4<sup>+</sup> 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

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for up-to-date information on products and custom  
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