

T-Select PEPTIDE

H-2K^b TRP-2 Peptide

SVYDFFVWL

Code No.	Quantity	Concentration
TS-5004-P	100 µL	10 mg/mL

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

Peptide Sequence: SVYDFFVWL (9 aa)

Origin: TRP-2, 180-188 aa

HLA Restriction: H-2K^b

Molecular Weight: 1,175.35 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.

H-2K^b TRP-2 Tetramers

TB-5004-1 H-2K^b TRP2 Tetramer-SVYDFFVWL-PE
TB-5004-2 H-2K^b TRP2 Tetramer-SVYDFFVWL-APC
TB-5004-4 H-2K^b TRP2 Tetramer-SVYDFFVWL-BV421

References for this epitope

- 1) Parkhurst MR *et al. Cancer Res* **58**:4895-4901 (1998)
- 2) Okano F, *et al. J Immunol* **174**: 2645-2652 (2005)
- 3) Takeshima T, *et al. Cancer Res* **70**: 2697-2706 (2010)
- 4) Kuwada E, *et al. Anticancer Res* **31**: 881-891 (2011)

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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