PE-Labeled Mouse H-2Kb&B2M&OVA (SIINFEKL) Tetramer Protein

Catalog # H2A-MP2H7

Synonym

H-2Kb & B2M & OVA (SIINFEKL)

Source

PE-Labeled Mouse H-2Kb&B2M&OVA (SIINFEKL) Tetramer Protein(H2A-MP2H7) is expressed from human 293 cells (HEK293). It contains AA Gly 22 - Thr 305 (H-2Kb) & Ile 21 - Met 119 (B2M) & SIINFEKL peptide (Accession # P01901 (H-2Kb) & P01887 (B2M) & SIINFEKL).
Predicted N-terminus: Gly 22 & Ile 21

Molecular Characterization

PE-Labeled Mouse H-2Kb&B2M&OVA (SIINFEKL) Tetramer Protein is assembled by biotinylated monomer (H2A-M82E6) and PE-labeled streptavidin.

Biotinylated Mouse H-2Kb&B2M&OVA (SIINFEKL) Complex Protein is produced by co-expression of H-2Kb and B2M loaded with OVA peptide. Biotinylated Mouse H-2Kb&B2M&OVA (SIINFEKL) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 1% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

Ovalbumin (OVA) can induce both humoral and cellular immune responses based on well-characterized peptide epitopes. The OVA257-264 octapeptide was one of the first OVA epitopes to be characterized, it has an amino acid sequence SIINFEKL, which is recognized by cytotoxic T lymphocytes. ovalbumin (Ova) was presented to T cells if it was released from pinosomes into the cytosol by osmotic lysis of pinosomes. Immunization with the adjuvanted SIINFEKL peptide induces long-lasting CD8+ T cell immunity in mice.

Clinical and Translational Updates