

## H-2K (b) & B2M&OVA (SIINFEKL) Monomer Protein, Mouse, MHC (His & Avi)

### General Information

Synonyms:	H-2K;OVA;MHC;H2-K1
Protein Construction:	His24-Pro297, Ile21-Met119(B2M) and SIINFEKL peptide
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P01901(H-2K(B))&P01887(B2M)&SIINFEKL
Molecular Weight:	The protein has a predicted MW of 50.20 kDa. Due to glycosylation, the protein migrates to 52-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Ovalbumin (OVA) has been historically a popular source of such antigens, since OVA can induce both humoral and cellular immune responses based on well-characterised peptide epitopes. The OVA257-264 octapeptide was one of the first OVA epitopes to be characterised, it has an amino acid sequence SIINFEKL, which is recognised by cytotoxic T lymphocytes. SIINFEKL forms fibrillar assemblies similar to other peptide hydrogels. The immunoreactive properties of this peptide can therefore be related to its self-assembling nature.

Reference

Kamalov M, et al. Ovalbumin Epitope SIINFEKL Self-Assembles into a Supramolecular Hydrogel. Sci Rep. 2019 Feb 25;9:2696. doi: 10.1038/s41598-019-39148-8. PMID: 30804439; PMCID: PMC6390181.

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