

Biotinylated Mouse H-2Dd&B2M&HIV env (IGPGRAFYA) Complex Protein (Monomer, MALS verified)

Catalog # H2A-M82E4



Synonym

H-2Dd & B2M & HIV env (IGPGRAFYA)

Source

Biotinylated Mouse H-2Dd&B2M&HIV env (IGPGRAFYA) Complex Protein(H2A-M82E4) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 311 (H-2Dd) & Ile 21 - Met 119 (B2M) & IGPGRAFYA peptide (Accession # [P01900](#) (H-2Dd) & [P01887](#) (B2M) & IGPGRAFYA). Predicted N-terminus: Gly 25 & Ile

Molecular Characterization

Biotinylated Mouse H-2Dd&B2M&HIV env (IGPGRAFYA) Complex Protein is produced by co-expression of H-2Dd and B2M loaded with HIV env peptide.

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 40.1 kDa and 17.4 kDa. The protein migrates as 43-45 kDa and 19 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Purity

>90% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Contact us for customized product form or formulation.

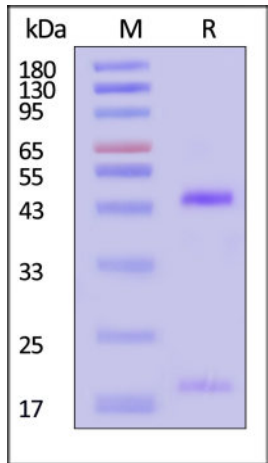
Reconstitution

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

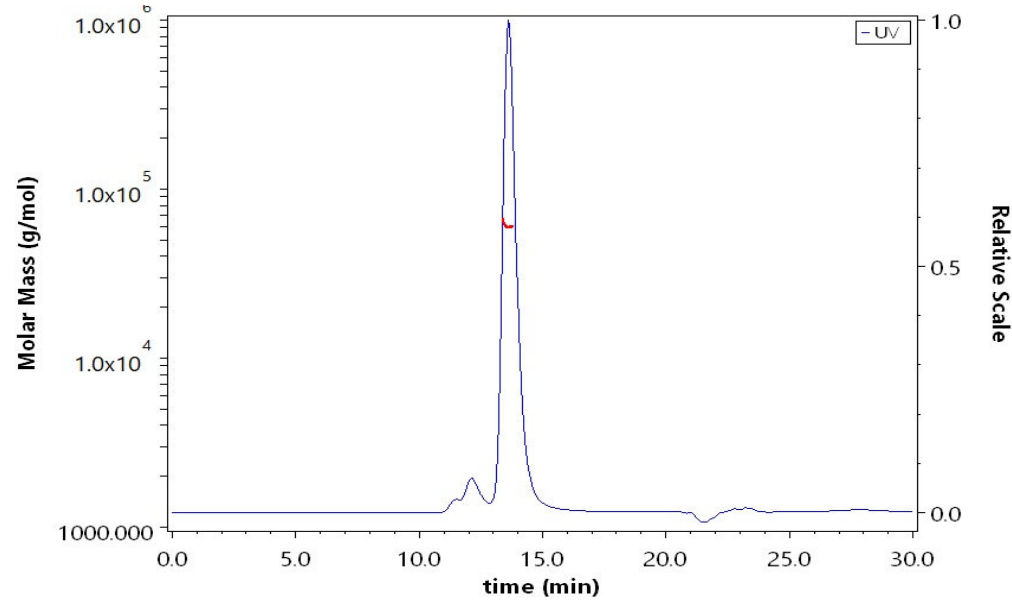
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:
• -20°C to -70°C for 12 months in lyophilized state;
• -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Mouse H-2Dd&B2M&HIV env (IGPGRAFYA) Complex Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse H-2Dd&B2M&HIV env (IGPGRAFYA) Complex Protein (Cat. No. H2A-M82E4) is more than 90% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS. [Report](#)

Bioactivity-ELISA

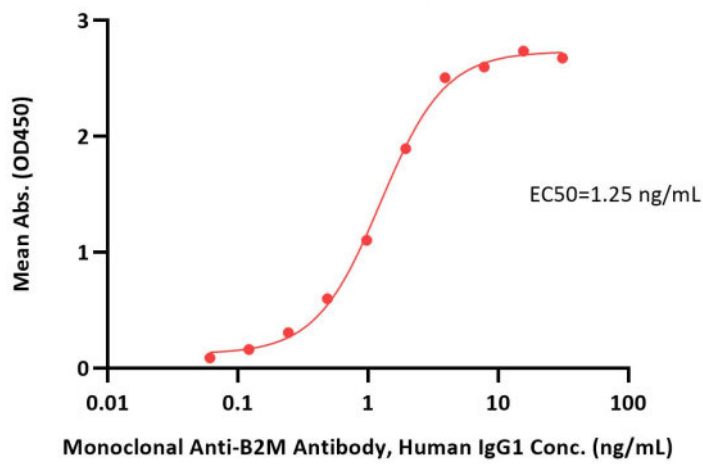


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Catalog # H2A-M82E4



Biotinylated Mouse H-2Kb&B2M&OVA (SIINFEKL) Complex Protein ELISA
0.1 µg of Biotinylated Mouse H-2Kb&B2M&OVA (SIINFEKL) Complex Protein per well



Immobilized Biotinylated Mouse H-2Dd&B2M&HIV env (IGPGRAFYA) Complex Protein (Cat. No. H2A-M82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Monoclonal Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-4 ng/mL (QC tested).

Background

HIV (human immunodeficiency virus) is a virus that attacks the body’s immune system. If HIV is not treated, it can lead to AIDS (acquired immunodeficiency syndrome). It can be transmitted via the exchange of a variety of body fluids from infected people, such as blood, breast milk, semen and vaginal secretions, And from a mother to her child during pregnancy and delivery. This disease can be managed by treatment regimens composed of a combination of antiretroviral (ARV) drugs. The Mouse H-2Dd HIV env (IGPGRAFYA) complex protein is a complex of H-2Dd of the MHC Class I, B2M, and IGPGRAFYA peptide of the HIV.

