Rev04
Update: Aug,08,2025

DATASHEET

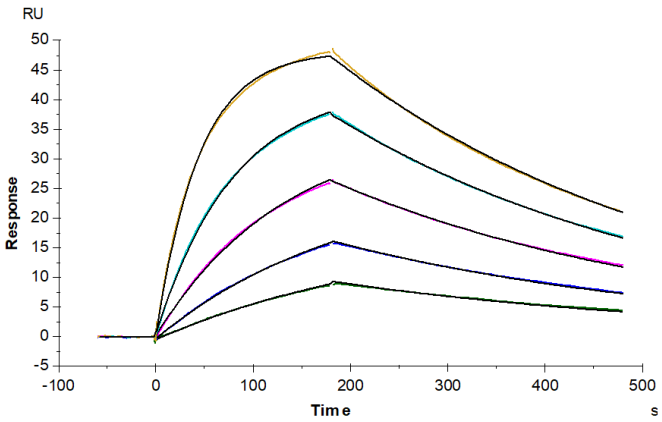
HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human

Cat. No.: Z06579

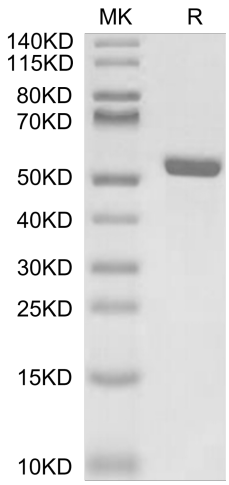
Product Introduction

Species	Human
Protein Construction	HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer[Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and SLLMWITQC peptide] Accession # A0A140T913(HLA-A*02:01)&P61769(B2M)&SLLMWITQC — His — Avi N-term — C-term
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Anti-HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Antibody, hFc Tag at at 5μg/ml (100μl/well) on the plate can bind HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	50.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 51-60 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22μm filtered solution in PBS, 100mM L-arginine (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

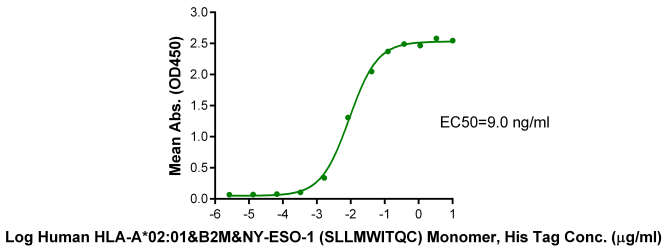
Examples



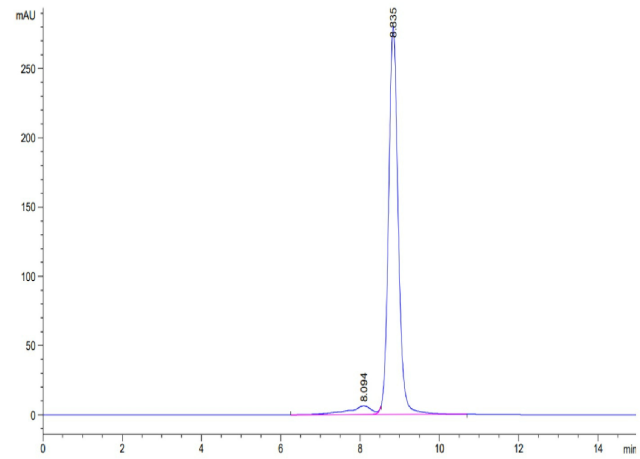
Anti-HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Antibody, hFc Tag captured on CM5 Chip via Protein A can bind HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human, His Tag with an affinity constant of 13.43 nM as determined in SPR assay (Biacore T200).



HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized Anti-HLA-A*02:01&B2M&NY-ESO-1 Antibody, hFc Tag at 5 μg/ml (100 μl/well) on the plate. Dose response curve for HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human, His Tag with the EC50 of 9.0 ng/ml determined by ELISA.



The purity of HLA-A*02:01&B2M&NY-ESO-1 (SLLMWITQC) Monomer, His & Avi, Human was greater than 95% as determined by SEC-HPLC.

Background

Target Background : NY-ESO-1 or New York esophageal squamous cell carcinoma 1 is a well-known cancer-testis antigen (CTAs) with re-expression in numerous cancer types. Its ability to elicit spontaneous humoral and cellular immune responses, together with its restricted expression pattern, have rendered it a good candidate target for cancer immunotherapy.

Synonyms : MHC; MY-ESO-1; CT6.1; LAGE-2; CTAG1; CTAG1B; ESO1CTAG; LAGE2A; NY-ESO-1; CTAG1A

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