Rev03
Update: Aug,08,2025

DATASHEET

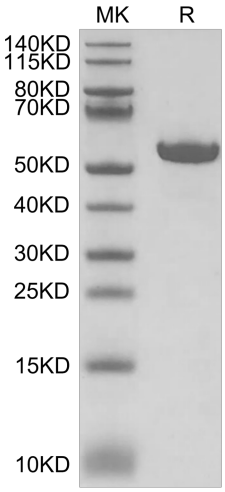
HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Human

Cat. No.: Z06513

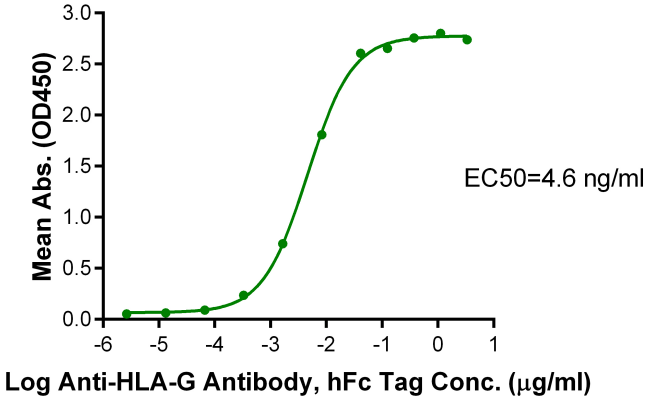
Product Introduction

Species	Human
Protein Construction	
Conjugate	Biotin
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 HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Human at 1μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml) can bind AntiHLAG Antibody, hFc Tag. 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 (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.

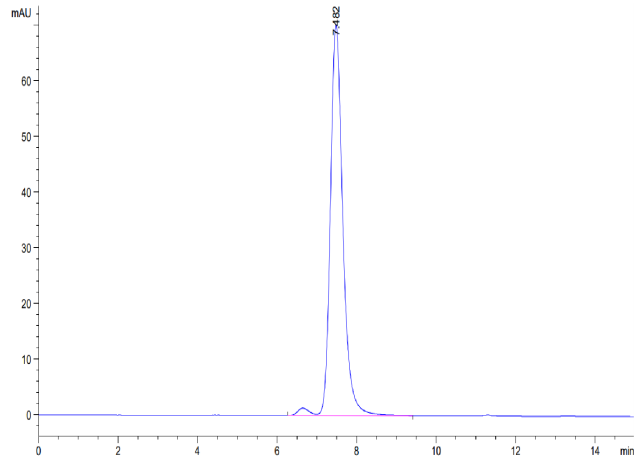
Examples



HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Human, His Tag at 1 μg/ml (100 μl/well) on the streptavidin precoated plate(5 μg/ml). Dose response curve for Anti-HLA-G Antibody, hFc Tag with the EC50 of 4.6 ng/ml determined by ELISA.



The purity of HLA-G&B2M&Peptide (RIIPRHLQL) Monomer[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : HLA-G is a molecule that was first known to confer protection to the fetus from destruction by the immune system of its mother, thus critically contributing to fetal-maternal tolerance. The first functional finding constituted the basis for HLA-G research and can be summarized as such: HLA-G, membrane-bound or soluble, strongly binds its inhibitory receptors on immune cells (NK, T, B, monocytes/dendritic cells), inhibits the functions of these effectors, and so induces immune inhibition.

Synonyms : HLA G antigen; sHLA-G; b2 microglobulin; HLA G; HLAG; HLA-G; MHC Class I Antigen G; MHC class Ib antigen; MHC-G; sHLA-G

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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