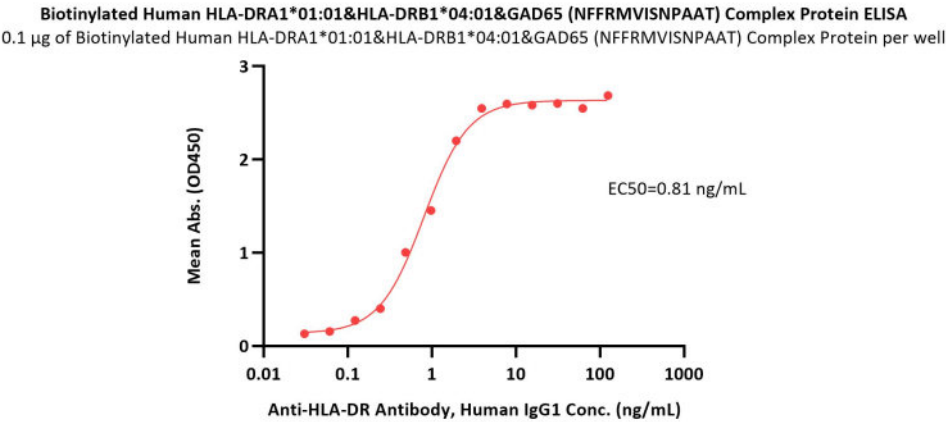


condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

H82E6) is more than 90% and the molecular weight of this protein is around 60-85 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Human HLA-DRA1*01:01&HLA-DRB1*04:01&GAD65 (NFFRMVISNPAAT) Complex Protein (Cat. No. HL5-H82E6) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-HLA-DR Antibody, Human IgG1 with a linear range of 0.03-4 ng/mL (QC tested).

Background

The peptide NFFRMVISNPAAT, derived from the human autoantigen glutamic acid decarboxylase 65 (GAD65), is presented by the MHC class II molecule HLA-DRA1*01:01/HLA-DRB1*04:01. This specific peptide-MHC II complex is strongly associated with the genetic risk for type 1 diabetes (T1D), particularly in individuals carrying the HLA-DRB1*04:01 allele. Recognition of this complex by autoreactive CD4⁺ T cells is a pivotal event in the autoimmune attack against pancreatic islet beta cells, making it a critical target for understanding the etiology of T1D and for developing antigen-specific immunotherapies.

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