



## Synonym

HLA-C\*07:02:01 & B2M & RYR (RYRPGTVAL)

## Source

Biotinylated Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein(HLR-H52W2) is expressed from human 293 cells (HEK293). It contains AA Cys 25 - Ile 308 (HLA-C\*07:02:01) & Ile 21 - Met 119 (B2M) & RYRPGTVAL peptide (Accession # [P10321](#) (HLA-C\*07:02:01) & [P61769](#) (B2M) & RYRPGTVAL).

Predicted N-terminus: Cys 25 & Arg

## Molecular Characterization

Biotinylated Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein is produced by co-expression of HLA and B2M loaded with RYR peptide.

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

The protein has a calculated MW of 36.1 kDa and 13.8 kDa. The protein migrates as 42-45 kDa and 14 kDa 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

>95% as determined by SDS-PAGE.

## 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

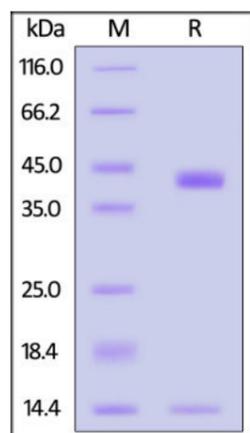
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-SPR

Discounts, Gifts,  
and more!

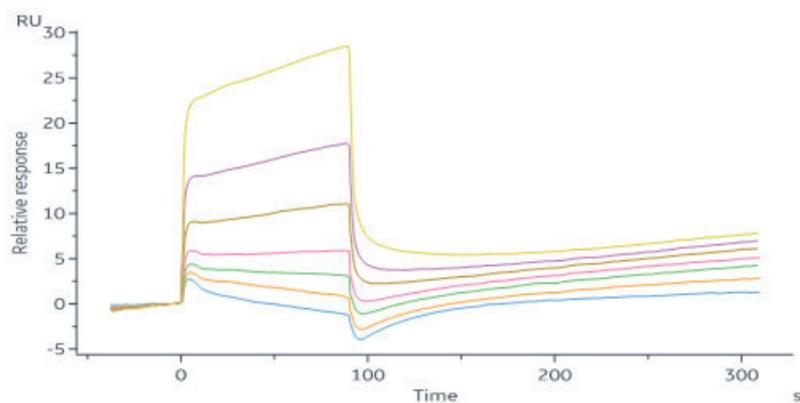


# Biotinylated Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein (Monomer)

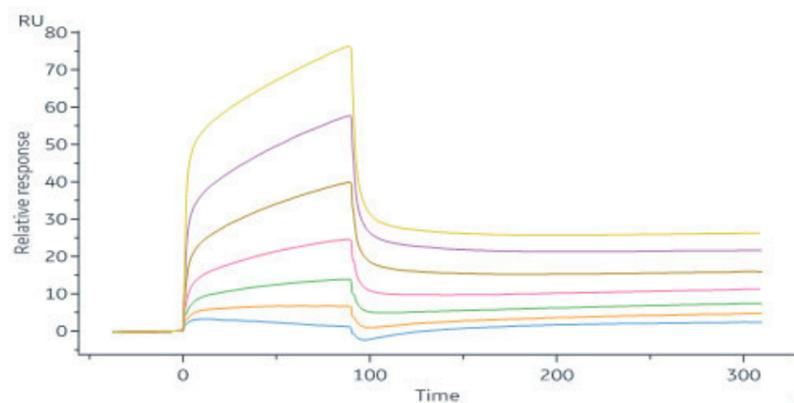
Catalog # HLR-H52W2



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Surprise Inside!



Biotinylated Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein (Monomer) (Cat. No. HLR-H52W2) immobilized on SA Chip can bind Human KIR2DL3, Fc Tag (Cat. No. KI3-H5258) with an affinity constant of 2.40  $\mu$ M as determined in a SPR assay (Biacore 8K) (Routinely tested).



Biotinylated Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein (Monomer) (Cat. No. HLR-H52W2) immobilized on SA Chip can bind Human KIR2DL2, Fc Tag (Cat. No. KI2-H5255) with an affinity constant of 1.01  $\mu$ M as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

HLA-A, B, and C are transmembrane glycoproteins in the major histocompatibility complex 1 (MHC I) family. The C receptor is a heterodimer consisting of a HLA-C mature gene product (heavy chain) and  $\beta$ 2-microglobulin (light chain). The mature C chain is anchored in the membrane. HLA class I molecules play a central role in the immune system by presenting peptides derived from endoplasmic reticulum lumen. HLA-C are expressed in nearly all cells, and present small peptides to the immune system which surveys for non-self peptides. Biotinylated Human HLA-C\*07:02:01&B2M&RYR (RYRPGTVAL) Complex Protein is a complex of HLA-C\*07:02:01 of the MHC Class I, B2M and RMFPNAPYL peptide of the RYR.

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