

# PE-Labeled Human HLA-A\*24:02&B2M&p53 (TYSPALNKMF) Tetramer Protein

Catalog # HLP-HP2Hc



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

HLA-A\*2402 & B2M & p53 (TYSPALNKMF)

## Source

PE-Labeled Human HLA-A\*24:02&B2M&p53 (TYSPALNKMF) Tetramer Protein(HLP-HP2Hc) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*24:02) & Ile 21 - Met 119 (B2M) & TYSPALNKMF peptide (Accession # [AAA59600.1](#) (HLA-A\*24:02) & [P61769](#) (B2M) & TYSPALNKMF).

Predicted N-terminus: Gly 25 & Ile 21

## Molecular Characterization

PE-Labeled Human HLA-A\*24:02&B2M&p53 (TYSPALNKMF) Tetramer Protein is assembled by biotinylated monomer (HLP-H82Eb) and PE-labeled streptavidin.

Biotinylated Human HLA-A\*24:02&B2M&p53 (TYSPALNKMF) Complex Protein is produced by co-expression of HLA and B2M loaded with p53 peptide. Biotinylated Human HLA-A\*24:02&B2M&p53 (TYSPALNKMF) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 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 protect from light and 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.

## Bioactivity-ELISA

 HLA-A\*2402 & B2M & p53 (TYSPALNKMF) ELISA

Immobilized PE-Labeled Human HLA-A\*24:02&B2M&p53 (TYSPALNKMF) Tetramer Protein (Cat. No. HLP-HP2Hc) at 1 µg/mL (100 µL/well) can bind Anti-HLA-A24&p53 Antibody, Human IgG1 with a linear range of 0.02-5 ng/mL (QC tested).

## Background

TP53 has been recognized as a tumor suppressor. 50% of cancers carry a TP53 mutation while many others affect other pathway components. High-copy numbers of WT p53 peptide-MHC class I complexes were detected on tumor cells as compared to low copies on normal cells. The Human HLA-A\*0201 p53 (GLAPPQHLIRV) complex protein is a complex of HLA-A\*0201 of the MHC Class I, B2M, and GLAPPQHLIRV peptide of the p53.

## Clinical and Translational Updates

Discounts, Gifts,  
and more!



➤ [www.acrobiosystems.com](http://www.acrobiosystems.com)

12/29/2023

# PE-Labeled Human HLA-A\*24:02&B2M&p53 (TYSALNKMF) Tetramer Protein

Catalog # HLP-HP2Hc



Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

Discounts, Gifts,  
and more!



[www.acrobiosystems.com](http://www.acrobiosystems.com)

12/29/2023