



Source

PE-Labeled Human HLA-A*02:01&B2M&Survivin (TLPPAWQPFL) Tetramer Protein (HLN-HP2H9) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*02:01) & Ile 21 - Met 119 (B2M) & CLGGLTMV peptide (Accession # [AAA59606.1](#) (HLA-A*02:01) & [P61769-1](#) (B2M) & TLPPAWQPFL).

Predicted N-terminus: Gly 25 & Thr

Molecular Characterization

PE-Labeled Human HLA-A*02:01&B2M&Survivin (TLPPAWQPFL) Tetramer Protein is assembled by biotinylated monomer (HLN-H82E5) and PE-labeled streptavidin.

Biotinylated Human HLA-A*02:01&B2M&Survivin (TLPPAWQPFL) Complex Protein is produced by co-expression of HLA and B2M loaded with Survivin peptide. Biotinylated Human HLA-A*02:01&B2M&Survivin (TLPPAWQPFL) 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.

Background

Survivin, also known as BIRC5 and EPR-1, is a member of the inhibitor of apoptosis (IAP) family, which encodes negative regulatory proteins that prevent apoptotic cell death. IAP family members usually contain multiple baculovirus IAP repeat (BIR) domains, but birc5 encodes proteins with only a single BIR domain. The Human HLA-A*0201 Survivin (TLPPAWQPFL) complex protein is a complex of HLA-A*0201 of the MHC Class I, B2M and TLPPAWQPFL peptide of the Survivin.

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