

PE-Labeled Human HLA-E*01:03 Tetramer Protein

Cat. No. MHC-HM406TP

Description

Source	Recombinant PE-Labeled Human HLA-E*01:03 Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Ile305(HLA-E*01:03), Ile21-Met119(B2M) and VMAPRTLVL peptide.
Accession	P13747(HLA-E*01:03)&P61769(B2M)&VMAPRTLVL
Molecular Weight	The protein has a predicted MW of 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.

Background

HLA-E is a nonclassical member of the major histocompatibility complex class I gene locus. HLA-E protein shares a high level of homology with MHC Ia classical proteins: it has similar tertiary structure, associates with β 2-microglobulin, and is able to present peptides to cytotoxic lymphocytes. The main function of HLA-E under normal conditions is to present peptides derived from the leader sequences of classical HLA class I proteins, thus serving for monitoring of expression of these molecules performed by cytotoxic lymphocytes.

Assay Data

Tris-Bis PAGE



PE-Labeled Human HLA-E*01:03 Tetramer on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.