

Rev02
 Update: Aug,08,2025
DATASHEET

HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer, His & Avi, Human

Cat. No.: Z06554

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> HLA-A*02:01&B2M&CMV pp65 (NLVPMVATV) Monomer [Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and NLVPMVATV peptide] Accession # A0A140T913(HLA-A*02:01)&P61769(B2M)&NLVPMVATV </div> <div style="background-color: #90c080; padding: 5px; text-align: center;">His</div> <div style="background-color: #4f81bd; padding: 5px; text-align: center;">Avi</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Expression System	HEK293
Theoretical Molecular Weight	50.35 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 53-63 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Human cytomegalovirus (CMV) is one of the major causes of severe complications in immunocompromised patients, such as recipients of hematopoietic cells, solid organ transplantation, and HIV-infected individuals. CMV is also a major pathogen in congenital infection. It can cause life-threatening diseases and severe neurological sequelae in new born infants. CMV phosphoprotein pp65 is thought to be a major antigen for CMV-specific cellular immunity.

Synonyms : MHC; HLA-A*02:01; CMV pp65

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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