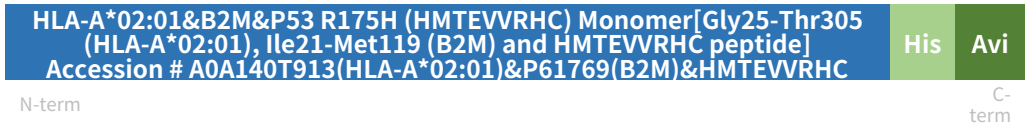
Rev02
Update: Aug,08,2025

DATASHEET

HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His & Avi, Human

Cat. No.: Z06584

Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer, His & Avi, Human captured on CM5 Chip via AntiHis Antibody can bind Anti-HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Antibody, hFc Tag in SPR assay (Biacore T200). Test result was comparable to standard batch.
Expression System	E.coli
Theoretical Molecular Weight	35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M)
Apparent Molecular Weight	The protein has a predicted MW of 35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M) same as Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
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 : p53 is a tumor suppressor protein. Under stressful conditions, p53 tightly regulates cell growth by promoting apoptosis and DNA repair. When p53 becomes mutated, it loses its function, resulting in abnormal cell proliferation and tumor progression. Depending on the p53 mutation, it has been shown to form aggregates leading to negative gain of function of the protein.p53 mutant associated aggregation has been observed in several cancer tissues and has been shown to promote tumor growth.

Synonyms : MHC; HLA-A; P53; TP53; Antigen NY-CO-13; BCC7; FLJ92943; LFS1; TRP53

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

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