

HLA-A*02:01&B2M&PRAME (ALYVDSLFFL) Monomer Protein, Human, MHC (His & Avi)

General Information

Synonyms:	OIP-4;PRAME;MAPE;OIP4
Protein Construction:	Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and ALYVDSLFFL peptide
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P79603(HLA-A*02:01)&P61769(B2M)&ALYVDSLFFL
Molecular Weight:	The protein has a predicted MW of 50.60 kDa. Due to glycosylation, the protein migrates to 53-63 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human HLA-A*02:01&B2M&PRAME (ALYVDSLFFL) Monomer, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-HLA-A*02:01&B2M&PRAME (ALYVDSLFFL) Antibody, hFc Tag with the EC50 of 40.3ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 100 mM Arginine (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

PRAME (PReferentially expressed Antigen in MELanoma) is a melanoma-associated antigen expressed in cutaneous and ocular melanomas and some other malignant neoplasms, while its expression in normal tissue and benign tumors is limited.

Reference

Lezcano C, et al. PRAME Immunohistochemistry as an Ancillary Test for the Assessment of Melanocytic Lesions. Surg Pathol Clin. 2021 Jun;14(2):165-175. doi: 10.1016/j.path.2021.01.001. Epub 2021 Apr 28. PMID: 34023098; PMCID: PMC8152939.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481