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Datasheet for ABIN7504376

HLA-A*02:01 (Monomer) protein (no Peptide)

Overview

Quantity:	100 µg
Target:	HLA-A*02:01
Protein Characteristics:	Monomer
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	no Peptide

Product Details

Purpose:	Human HLA-A*02:01 & B2M Monomer Protein
Sequence:	Gly25-Thr305 (HLA-A*02:01) & Ile21-Met119 (B2M)
Specificity:	Uni-Prot: A0A140T913 (HLA-A*02:01), P61769 (B2M)
Characteristics:	Recombinant Human HLA-A*02:01 & B2M Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305(HLA-A*02:01) and Ile21-Met119(B2M).
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	HLA-A*02:01
Molecular Weight:	48.10 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
UniProt:	A0A140T913

Application Details

Application Notes:	Can be used for Assess MHC/TCR Binding Affinity, generate custom MHC peptide monomer or tetramer, High Throughput Peptide Screening
Comment:	The HLA-A*02:01&B2M Monomer is absent from peptide, namely peptide-receptive MHC. It can be loaded with antigenic peptides matching HLA-A*02:01. The MHC molecules comprising human HLA alleles and B2M, which can be readily tetramerized and loaded with peptides of choice in a high-throughput manner.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months