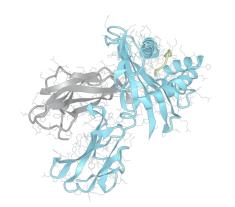


## **Quality Assurance Datasheet**



### sHLA-A\*02:01bio/pep

A\*0201, A0201, A\*02, A02, A2

CMV

**NLVPMVATV** 

Serological Name A

Peptide Load Specific Peptide
Complexity Monomer
Conjugation Biotin

SKU A0201biopep

LOT# HLAbioPep004-Bio12301-P397R

#### **Product Description**

Allele Name A\*02:01

B2m

HLA Class I HLA Gene Locus HLA-A

Alternative Allele Name A Chain A\*0201, A0201, A\*02, A02, A2

Alternative Allele Name B Chain -

Biotinylated, recombinant, truncated Class I soluble Human Leukocyte

Antigen (sHLA), naturally folded and glycosylated, loaded with synthetic

peptide.

Serological Name A2

Serological Split -

Bw4/Bw6 Assignment –

Bw4/Bw6 Sequence -

Allele Frequency [World Population]

A chain 12.00%

B chain -

#### **Associated products**

A0201biopep A0201Tetrpep

Description



### **Product Specification**

<b>Product Definition</b>	HLA-A*02:01bio/pep
Product Name	A*02:01bio/CMV
Lot	HLAbioPep004-Bio12301-P397R
Peptide Name	CMV
Peptide sequence	NLVPMVATV
HLA Species	Human
Host Cell Line Species	Human
Peptide Load	Specific Peptide
Modification	Modified
Conjugation	Biotin
Complexity	Monomer
<b>Protein Format</b>	Biotinylated, recombinant, truncated, soluble, modified, synthetic peptide loaded
Storage Temperature	4°C (This product should be stored undiluted)
Form	Liquid
Concentration	617.3 μg/ml
Formulation	PBS
рН	7.4
Purification Method	Affinity Chromatography/Spin Filtration
Grade	Research Use Only [RUO]
Authentication Verification	Seqence Based Typing

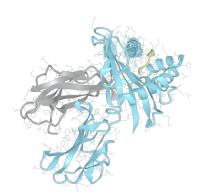
### **Protein Sequences**

Alpha Chain Sequence	DGETRKVKAH KDYIALKEDL RTDAPKTHMT	SQTHRVDLGT RSWTAADMAA	LRGYYNQSEA QTTKHKWEAA LRCWALSFYP	GSHTVQRMYG HVAEQLRAYL AEITLTWQRD	EGTCVEWLRR GEDQTQDTEL	RGYHQYAYDG YLENGKETLQ
Beta Chain Sequence		SRHPAENGKS TPTEKDEYAC			KNGERIEKVE	HSDLSFSKDW





### **CERTIFICATE OF ANALYSIS**



### sHLA-A\*02:01bio/pep

A\*0201, A0201, A\*02, A02, A2

CMV

**NLVPMVATV** 

Serological Name A2

Peptide LoadSpecific PeptideComplexityMonomerConjugationBiotin

SKU A0201biopep

LOT# HLAbioPep004-Bio12301-P397R

#### **LCMS Mass-Spec Parameters**

Product Name	sHLA-A*02:01bio/pep		
Test Lot#	HLAbioPep004-Bio12301-P39	7R	
Process	Purified HLA-A*02:01bio/pep acid and incubated at 76° C for		d controls were denatured with 10% acetic
<b>HLA Amount Processed</b>	18.1 μg		
Peptide Ligand Separation	C <sub>18</sub> spin column		
Method of Analysis	nano-LCMS system		
Theoretical [M+2H] <sup>++</sup> Ion	943.5	CMV	NLVPMVATV

#### **LCMS Mass-Spec Report**

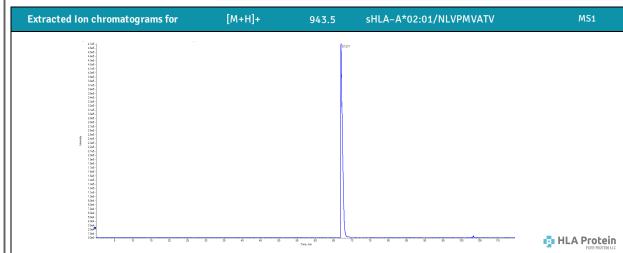
XIC AUC of MS1 MS1 Peptide Dilution [x-fold] XIC AUC of MS2 MS2 Postide Dilution [x-fold]	1.558 100 3.293	1.E+07 x 1.E+06	XIC = Extracted Ion Chromato AUC = Area Underneath the 0 BPC= Base Peak Chromatog
MS2 Peptide Dilution [x-fold] BPC MS1 [Custom Ion]	4.982	x 1.E+06	

 BPC MS1 [Custom Ion]
 4.982
 1.E+06

 BPC MS1 [Other Ions]
 1.883
 1.E+05

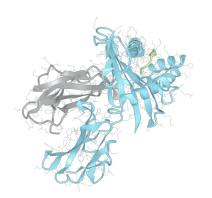
Free peptide 0.211%

Calculated Exchange Efficiency 96.2% PASS/FAIL THRESHOLD: > 95% Pass





### **CERTIFICATE OF ANALYSIS**



# **sHLA-A\*02:01pep** A\*0201, A0201, A\*02, A02, A2

CMV

**NLVPMVATV** 

Serological Name A2

**Peptide Load** Specific Peptide Complexity Monomer Conjugation Biotin

SKU A0201biopep

LOT# HLAbioPep004-Bio12301-P397R

#### **LCMS Mass-Spec Report**

