

Peptide Array, Hepatitis C Virus, H77, NS4A Protein

Catalog No. NR-3753

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Product Description: The 7-peptide array spans the NS4A protein of hepatitis C virus, H77 (genotype 1a; GenPept: AAB67036). Peptides are 14- to 18-mers, with 11 amino acid overlaps.

Lot: T5269-1 to T5269-7

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Correct MW by MALDI-TOF
- Counter Ion Trifluoroacetate

Peptide-specific information is shown in the two tables below.

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
1 of 7	4/14/2011	18	1 STWVLVGGVLAALAAYCL 18	1807.2	1.83	Crude	87.6%
2 of 7	4/14/2011	18	8 GVLAALAAYCLSTGCVVI 25	1724.13	2.06	Crude	88.4%
3 of 7	4/14/2011	17	15 AYCLSTGCVVIVGRIVL 31	1766.21	1.89	95.3%	88.6%
4 of 7	4/14/2011	18	21 GCVVIVGRIVLSGKPAII 38	1794.29	1.72	81.1%	83.6%
5 of 7	4/14/2011	18	28 RIVLSGKPAIIPDREVLV 45	2039.47	0.32	96.6%	81.5%
6 of 7	4/14/2011	17	35 PAIIPDREVLVQEFDEM 51	2065.35	-0.38	98.5%	90.2%
7 of 7	4/14/2011	14	41 REVLVQEFDEMEEC 54	1820.0	-1.08	97.6%	87.9%

^a% full-length
^bRemainder is salt and water

Certificate of Analysis for NR-3753

Table 2 - Amino Acid Analysis

Peptide		Ala (A)	Arg (R)	Asx (N,D)	Cys (C)	Glx (Q,E)	Gly (G)	His (H)	Ile (I)	Leu (L)	Lys (K)	Met (M)	Phe (F)	Pro (P)	Ser (S)	Thr (T)	Trp (W)	Tyr (Y)	Val (V)	
1 of 7	Expected	4.00			1.00		2.00			4.00					1.00	1.00	1.00	1.00	3.00	
	Actual	3.85			0.56 ^b		2.11			3.75					0.77	0.65	0.00 ^a	1.00	2.65	
2 of 7	Expected	4.00			2.00		2.00		1.00	3.00					1.00	1.00		1.00	3.00	
	Actual	3.50			0.84 ^b		2.05		0.93 ^c	2.76					1.09	0.88		1.00	1.99 ^c	
3 of 7	Expected	1.00	1.00		2.00		2.00		2.00	2.00					1.00	1.00		1.00	4.00	
	Actual	0.90	0.87		0.57 ^b		1.75		0.89 ^c	1.73					0.93	0.85		1.00	1.69 ^c	
4 of 7	Expected	1.00	1.00		1.00		3.00		4.00	1.00	1.00			1.00	1.00				4.00	
	Actual	1.00	0.95		0.51 ^b		3.10		1.80 ^c	0.81	0.90			1.00	0.99				1.50 ^c	
5 of 7	Expected	1.00	2.00	1.00		1.00	1.00		3.00	2.00	1.00			2.00	1.00				2.00	
	Actual	1.10	1.97	0.86		0.93	1.14		1.44 ^c	1.81	1.00			2.00	0.95				1.14	1.33 ^c
6 of 7	Expected	1.00	1.00	2.00		4.00			2.00	1.00		1.00	1.00	2.00					1.00	1.00
	Actual	0.89	1.05	1.80		3.66			0.87 ^c	0.91		0.93	1.01	1.94					1.00	0.91
7 of 7	Expected		1.00	1.00	1.00	6.00				1.00		1.00	1.00						1.00	1.00
	Actual		0.95	0.75	0.50 ^b	5.50				0.89		1.08	1.10						1.00	0.81

^aTrp was completely destroyed during hydrolysis

^bCys was partially destroyed during hydrolysis

^cVal-Ile, Val-Val, Ile-Ile and/or Ile-Val bonds were only partially destroyed during hydrolysis

Date: 23 AUG 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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