

Peptide Array, Hepatitis C Virus, J4, NS4A Protein

Catalog No. NR-3743

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Product Description: The 7-peptide array spans the NS4A protein of hepatitis C virus, J4 (genotype 1b; GenPept: AAC15722). Peptides are 14- to 18-mers, with 11 amino acid overlaps.

Lot: T5252-1 to T5252-7

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.

Table 1							
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	1807.20	1.83	Crude	87.8%
2 of 7	4/14/2011	18	8 GVLAALAAYCLTTGSVVI 25	1722.09	1.88	Crude	88.5%
3 of 7	4/14/2011	17	15 AYCLTTGSVVIVGRIL 31	1778.20	1.72	82.9%	88.6%
4 of 7	4/14/2011	18	21 GSVVIVGRILSGKPAVV 38	1764.20	1.52	96.3%	84.8%
5 of 7	4/14/2011	18	28 RIILSGKPAVVPDREVL 45	2025.44	0.3	95.3%	81.8%
6 of 7	4/14/2011	17	35 PAVVPDREVLQEFDEM 51	2037.29	-0.42	89.1%	89.5%
7 of 7	4/14/2011	14	41 REVLQEFDEMEEC 54	1820.00	-1.08	92.4%	88.3%

^a% full-length

^bRemainder is salt and water

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	0.00	2.00			4.00					1.00	1.00	1.00	1.00	3.00	
	Actual	4.15			0.55 ^b	0.00	2.20			4.00					0.97	0.94	0.00 ^a	1.54	2.75	
2 of 7	Expected	4.00			1.00		2.00		1.00	3.00					1.00	2.00		1.00	3.00	
	Actual	3.86			0.52 ^b		2.14		0.72 ^c	2.71					1.03	1.95		0.74	1.63 ^c	
3 of 7	Expected	1.00	1.00		1.00		2.00		3.00	2.00					1.00	2.00		1.00	3.00	
	Actual	1.00	0.87		0.62 ^b		1.75		1.63 ^c	1.82					0.76	2.00		1.03	1.54 ^c	
4 of 7	Expected	1.00	1.00				3.00		3.00	1.00	1.00			1.00	2.00				5.00	
	Actual	1.05	0.84				2.97		0.90 ^c	0.76	1.00			1.10	1.96				2.93 ^c	
5 of 7	Expected	1.00	2.00	1.00		1.00	1.00		2.00	2.00	1.00			2.00	1.00				1.00	3.00
	Actual	0.95	2.30	0.85		0.91	1.05		0.82 ^c	1.70	1.00			2.10	1.09				1.18	1.85 ^c
6 of 7	Expected	1.00	1.00	2.00		4.00				1.00		1.00	1.00	2.00					1.00	3.00
	Actual	0.75	0.98	1.72		3.65				0.84		0.87	1.10	1.80					1.00	1.92 ^c
7 of 7	Expected		1.00	1.00	1.00	6.00				1.00		1.00	1.00						1.00	1.00
	Actual		1.04	0.91	0.46 ^b	5.67				0.95		0.98	1.00						1.00	0.80

^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: 11 OCT 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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