

Peptide Array, Hepatitis C Virus, H77, Alternative Reading Frame Protein (ARFP)

Catalog No. NR-4201

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Product Description: The 25-peptide array spans the ARFP of hepatitis C virus, H77 (genotype 1a; GenBank: AF011751). Peptides are 11- to 18-mers, with 11 amino acid overlaps.

Lot: N949-1 to N949-25

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 25	10/13/06	18	1 ARILNLKEKPNVTPTVAH 18	2001.38	-0.36	83.1%	77.8%
2 of 25	10/13/06	18	8 EKPNTPTVAHRTSSSRV 25	1966.2	-0.91	89.8%	77.5%
3 of 25	10/13/06	17	15 TVAHRTSSSRVAVRSLV 31	1826.1	0.17	95.8%	76.2%
4 of 25	10/13/06	18	21 SSSRVAVRSLVEFTCCRA 38	1971.3	0.38	88.2%	81.2%
5 of 25	10/13/06	17	28 RSLVEFTCCRAGALDWV 44	1926.26	0.51	82.8%	84.9%
6 of 25	10/13/06	18	34 TCCRAGALDWVCARRGRL 51	2007.41	0.04	92.6%	77.9%
7 of 25	10/13/06	17	41 LDWVCARRGRLPSGRNL 57	1969.32	-0.54	88.3%	77.6%
8 of 25	10/13/06	17	47 RRGRLPSGRNLEVDVSL 63	1924.21	-0.75	84.2%	77.1%
9 of 25	10/13/06	16	53 SGRNLEVDVSLSPRHV 68	1764.97	-0.43	81.9%	79.5%
10 of 25	10/13/06	15	58 EVDVSLSPRHVGPRA 72	1618.83	-0.41	83.4%	78.0%
11 of 25	10/13/06	15	62 SLSPRHVGPRA G PGL 76	1500.74	-0.41	93.9%	76.7%
12 of 25	10/13/06	16	66 RHVGPRA G PGL S PGL 81	1571.82	-0.41	90.3%	77.5%
13 of 25	10/13/06	18	71 RAGPGLSPGTLG PSMAMR 88	1756.09	-0.15	84.5%	83.7%
14 of 25	10/13/06	16	78 PGLG PSMAMR VAGGR 93	1557.87	0.01	85.3%	82.0%
15 of 25	10/13/06	18	83 PSMAMR VAGGR DG SCLPV 100	1804.16	0.2	83.4%	84.1%
16 of 25	10/13/06	18	90 AGGR DG SCLPVALGLAGA 107	1584.83	0.72	91.9%	87.4%
17 of 25	10/13/06	17	97 CLPVALGLAGAPQTPGV 113	1563.89	1.03	89.0%	87.3%
18 of 25	10/13/06	18	103 GLAGAPQTPGVGRAIWVR 120	1806.12	0.18	92.1%	84.1%
19 of 25	10/13/06	18	110 TPGVGRAIWVRSSIPLRA 127	1936.31	0.23	86.8%	80.9%
20 of 25	10/13/06	17	117 IWVRSSIPLRAASPTSW 133	1927.25	0.16	90.1%	84.9%
21 of 25	10/13/06	18	123 IPLRAASPTSWGTYRSSA 140	1921.16	-0.32	89.5%	84.9%
22 of 25	10/13/06	17	130 P TSWGTYRSSAPLLEAL 146	1849.09	-0.15	85.5%	89.0%
23 of 25	10/13/06	18	136 YRSSAPLLEALPGPWRMA 153	2015.38	-0.16	91.0%	85.5%
24 of 25	10/13/06	18	143 LEALPGPWRMASGFWKTA 160	2018.39	-0.08	82.4%	85.5%
25 of 25	2/19/07	11	150 WRMASGFWKTA 160	1340.58	-0.5	93.5%	79.6%

^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 25	Expected	2.00	1.00	2.00		1.00		1.00	1.00	2.00	2.00			2.00		2.00			2.00
	Actual	1.91	1.16	1.87		1.05		1.00	0.93	1.87	1.71			1.87		1.72			1.78
2 of 25	Expected	1.00	2.00	1.00		1.00		1.00			1.00			2.00	3.00	3.00			3.00
	Actual	1.11	1.99	0.99		1.01		1.11			0.95			2.00	2.78	2.64			2.68
3 of 25	Expected	2.00	3.00					1.00		1.00					4.00	2.00			4.00
	Actual	2.00	2.68					1.16		1.10					3.70	1.84			3.84
4 of 25	Expected	2.00	3.00		2.00	1.00				1.00			1.00		4.00	1.00			3.00
	Actual	2.00	2.70		1.15 ^a	1.03				1.05			0.98		3.61	0.83			2.63
5 of 25	Expected	2.00	2.00	1.00	2.00	1.00	1.00			2.00			1.00		1.00	1.00	1.00		2.00
	Actual	2.00	2.12	0.72	1.07 ^a	0.77	1.18			1.79			0.85		1.11	0.81	0.00 ^b		1.80
6 of 25	Expected	3.00	4.00	1.00	3.00		2.00			2.00						1.00	1.00		1.00
	Actual	3.22	3.66	0.67	1.36 ^a		2.16			1.90						0.68	0.00 ^b		1.00
7 of 25	Expected	1.00	4.00	2.00	1.00		2.00			3.00				1.00	1.00		1.00		1.00
	Actual	1.04	3.78	1.83	0.54 ^a		1.99			2.68				1.16	0.97		0.00 ^b		1.00
8 of 25	Expected		4.00	2.00		1.00	2.00			3.00				1.00	2.00				2.00
	Actual		4.00	1.97		1.07	2.13			2.68				1.08	2.12				2.00
9 of 25	Expected		2.00	2.00		1.00	1.00	1.00		2.00				1.00	3.00				3.00
	Actual		2.24	1.65		1.00	1.07	1.00		1.75				1.12	2.70				2.66
10 of 25	Expected	1.00	2.00	1.00		1.00	1.00	1.00		1.00				2.00	2.00				3.00
	Actual	0.98	2.06	0.88		0.86	0.89	1.00		1.07				1.89	1.98				2.80
11 of 25	Expected	1.00	2.00				3.00	1.00		2.00				3.00	2.00				1.00
	Actual	1.00	2.15				2.64	1.16		1.73				2.63	1.81				1.08
12 of 25	Expected	1.00	2.00				4.00	1.00		2.00				3.00	1.00	1.00			1.00
	Actual	0.95	2.00				3.67	1.12		1.80				2.87	0.97	0.99			1.03
13 of 25	Expected	2.00	2.00				4.00			2.00		2.00		3.00	2.00	1.00			
	Actual	2.00	2.13				3.77			1.94		1.97		2.86	2.03	1.11			
14 of 25	Expected	2.00	2.00				4.00			1.00		2.00		2.00	1.00	1.00			1.00
	Actual	1.82	2.00				3.70			1.09		2.07		1.98	0.99	0.94			1.02
15 of 25	Expected	2.00	2.00	1.00	1.00		3.00			1.00		2.00		2.00	2.00				2.00
	Actual	1.91	2.18	1.00	0.46 ^a		2.89			1.21		1.99		2.00	1.71				1.87
16 of 25	Expected	4.00	1.00	1.00	1.00		5.00			3.00				1.00	1.00				1.00
	Actual	3.71	1.12	1.00	0.49 ^a		4.77			2.76				1.15	0.83				1.12
17 of 25	Expected	3.00			1.00	1.00	3.00			3.00				3.00		1.00			2.00
	Actual	2.67			0.56 ^a	0.98	3.06			2.67				2.96		1.00			2.03
18 of 25	Expected	3.00	2.00			1.00	4.00		1.00	1.00				2.00		1.00	1.00		2.00
	Actual	2.78	2.00			0.91	3.69		0.86	1.02				2.05		0.87	0.00 ^b		1.97
19 of 25	Expected	2.00	3.00				2.00		2.00	1.00				2.00	2.00	1.00	1.00		2.00
	Actual	2.00	2.81				1.91		1.64	1.04				2.04	1.91	0.92	0.00 ^b		2.07
20 of 25	Expected	2.00	2.00						2.00	1.00				2.00	4.00	1.00	2.00		1.00
	Actual	1.93	2.05						1.73	1.00				2.04	3.67	1.00	0.00 ^b		1.12
21 of 25	Expected	3.00	2.00				1.00		1.00	1.00				2.00	4.00	2.00	1.00	1.00	
	Actual	2.92	2.00				1.02		0.94	0.96				2.03	3.74	1.80	0.00 ^b	1.01	
22 of 25	Expected	2.00	1.00			1.00	1.00			3.00				2.00	3.00	2.00	1.00	1.00	
	Actual	1.83	1.10			0.91	1.00			2.80				2.00	2.74	1.68	0.00 ^b	1.01	
23 of 25	Expected	3.00	2.00			1.00	1.00			3.00		1.00		3.00	2.00		1.00	1.00	
	Actual	2.55	2.11			0.92	1.01			2.80		0.88		2.93	1.93		0.00 ^b	1.00	
24 of 25	Expected	3.00	1.00			1.00	2.00			2.00	1.00	1.00	1.00	2.00	1.00	1.00	2.00		
	Actual	2.80	1.08			0.88	1.98			1.73	0.87	1.08	1.01	2.00	1.01	0.91	0.00 ^b		
25 of 25	Expected	2.00	1.00				1.00				1.00	1.00	1.00		1.00	1.00	2.00		
	Actual	2.00	1.00				1.04				1.05	0.90	1.00		0.93	0.92	0.00 ^b		

^aCys was partially destroyed during hydrolysis

^bTrp was completely destroyed during hydrolysis

Certificate of Analysis for NR-4201

Date: 28 JUN 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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