

Peptide Array, Hepatitis C Virus, H77, NS2 Protein

Catalog No. NR-3751

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Product Description: The 32-peptide array spans the NS2 protein of hepatitis C virus, H77 (genotype 1a; GenPept: AAB67036). Peptides are 13- to 18-mers, with 11 or 12 amino acid overlaps.

Lot: T5257-1 to T5257-32

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 32	4/14/2011	18	1 LDTEVAASCGGVVLVGLM 18	1734.08	1.47	Crude	88.5%
2 of 32	4/14/2011	18	8 SCGGVVLVGLMALTSPY 25	1780.19	1.53	Crude	88.6%
3 of 32	4/14/2011	18	15 VGLMALTSPYYKRYISW 32	2161.61	0.35	87.3%	86.3%
4 of 32	4/14/2011	18	22 LSPYYKRYISWCMWWLQY 39	2486.97	-0.36	93.4%	86.9%
5 of 32	4/14/2011	18	29 YISWCMWWLQYFLTRVEA 46	2395.85	0.39	95.4%	91.3%
6 of 32	4/14/2011	17	36 WLQYFLTRVEAQLHVWV 52	2188.58	0.39	82.0%	86.6%
7 of 32	4/14/2011	17	42 TRVEAQLHVWVPLNVR 58	2014.38	-0.08	94.0%	81.0%
8 of 32	4/14/2011	18	48 LHVWVPLNVRGGRDAVI 65	1998.38	0.37	94.0%	81.4%
9 of 32	4/14/2011	18	55 LNVRGGRDAVILLMCVVH 72	1965.43	1.05	80.5%	81.2%
10 of 32	4/14/2011	18	62 DAVILLMCVVHPTLVFDI 79	1998.5	1.87	96.3%	89.5%
11 of 32	4/14/2011	18	69 CVVHPTLVFDITKLLAI 86	1995.52	1.68	88.4%	85.4%
12 of 32	4/14/2011	18	76 VFDITKLLAIFGPLWIL 93	2072.63	1.84	100.0%	90.1%
13 of 32	4/14/2011	18	83 LLAIFGPLWILQASLLKV 100	1995.54	1.74	99.2%	89.5%
14 of 32	4/14/2011	17	90 LWILQASLLKVPYFVRV 106	2045.56	1.2	96.2%	85.7%
15 of 32	4/14/2011	17	96 SLLKVPYFVRVQGLLRI 112	2001.51	0.86	89.7%	81.0%
16 of 32	4/14/2011	18	102 YFVRVQGLLRICALARKI 119	2119.67	0.84	88.3%	78.8%
17 of 32	4/14/2011	17	109 LLRICALARKIAGGHYV 125	1854.31	0.84	95.1%	76.5%
18 of 32	4/14/2011	18	115 LARKIAGGHYVQMAIILK 132	1982.48	0.64	95.4%	78.7%
19 of 32	4/14/2011	18	122 GHYVQMAIILKLGALTGT 139	1936.32	0.58	99.1%	85.0%
20 of 32	4/14/2011	16	129 IILKLGALTGTYYVYNHL 144	1776.13	0.69	84.8%	83.9%
21 of 32	4/14/2011	18	134 ALTGTYYVYNHLTPLRDWA 151	2091.37	-0.17	91.8%	85.6%
22 of 32	4/14/2011	18	141 YNHLTPLRDWAHNGLRDL 158	2191.46	-0.96	96.6%	79.4%
23 of 32	4/14/2011	18	148 RDWAHNGLRDLAVAVEPV 165	2018.28	-0.19	96.9%	81.5%
24 of 32	4/14/2011	16	155 LRDLA VAVEPVVFSRM 170	1802.19	0.89	84.7%	84.1%

Table 1

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
25 of 32	4/14/2011	18	160 VAVEPVVFSRMETKLITW 177	2105.55	0.64	83.1%	86.0%
26 of 32	4/14/2011	17	167 FSRMETKLITWGADTAA 183	1898.18	-0.07	95.7%	84.5%
27 of 32	4/14/2011	16	173 KLITWGADTAACGDII 188	1647.93	0.7	92.4%	87.8%
28 of 32	4/14/2011	18	178 GADTAACGDIINGLPVSA 195	1644.83	0.66	91.3%	87.8%
29 of 32	4/14/2011	18	185 GDIINGLPVSARRGQEIL 202	1908.2	0.03	100.0%	83.8%
30 of 32	4/14/2011	18	192 PVSARRGQEILLGPADGM 209	1867.17	-0.16	93.7%	84.5%
31 of 32	4/14/2011	18	198 GQEILLGPADGMVSKGWR 215	1914.23	-0.21	97.9%	84.5%
32 of 32	4/14/2011	13	205 PADGMVSKGWRL 217	1429.72	-0.04	91.8%	81.7%

^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 32	Expected	2.00		1.00	1.00	1.00	3.00			3.00	0.00	1.00			1.00	1.00			4.00	
	Actual	2.00		0.97	0.60 ^a	1.08	2.99			2.75	0.00	0.88			0.70	0.75			2.80 ^b	
2 of 32	Expected	1.00			1.00		3.00			4.00		1.00		1.00	2.00	1.00		1.00	3.00	
	Actual	0.98			0.50 ^a		3.00			3.80		0.95		1.10	1.60	0.70		1.10	1.77 ^b	
3 of 32	Expected	1.00	1.00				1.00		1.00	3.00	1.00	1.00		1.00	2.00	1.00	1.00	3.00	1.00	
	Actual	1.06	1.00				0.88		0.88	3.00	1.03	0.98		1.12	1.85	0.95	0.00 ^c	2.85	1.02	
4 of 32	Expected		1.00		1.00	1.00			1.00	2.00	1.00	1.00		1.00	2.00		3.00	4.00		
	Actual		0.98		0.48 ^a	0.89			0.85	2.00	1.10	0.71		1.05	1.95		0.00 ^c	3.65		
5 of 32	Expected	1.00	1.00		1.00	2.00			1.00	2.00		1.00	1.00		1.00	1.00	3.00	2.00	1.00	
	Actual	0.85	1.05		0.55 ^a	2.02			0.91	1.83		0.80	1.05		1.00	0.95	0.00 ^c	1.90	0.86	
6 of 32	Expected	1.00	1.00			3.00		1.00		3.00			1.00			1.00	2.00	1.00	3.00	
	Actual	1.01	1.00			2.81		1.00		2.80			1.10			0.96	0.00 ^c	1.10	2.65	
7 of 32	Expected	1.00	2.00	1.00		2.00		1.00		2.00				2.00		1.00	1.00		4.00	
	Actual	1.00	1.70	0.93		1.71		1.00		2.00				2.08		0.99	0.00 ^c		3.95	
8 of 32	Expected	1.00	2.00	2.00			2.00	1.00	1.00	2.00				2.00			1.00		4.00	
	Actual	1.00	1.90	1.89			2.10	1.01	0.56 ^b	1.97				1.98			0.00 ^c		3.38 ^b	
9 of 32	Expected	1.00	2.00	2.00	1.00		2.00	1.00	1.00	3.00		1.00							4.00	
	Actual	0.85	2.10	2.00	0.53 ^a		2.10	0.80	0.57 ^b	2.81		0.81							2.73 ^b	
10 of 32	Expected	1.00		2.00	1.00			1.00	2.00	3.00		1.00	1.00	1.00		1.00			4.00	
	Actual	0.90		1.70	0.65 ^a			0.95	0.99 ^b	2.75		0.78	1.00	1.11		1.02			2.64 ^b	
11 of 32	Expected	1.00		1.00	1.00			1.00	2.00	4.00	1.00		1.00	1.00		2.00			3.00	
	Actual	1.03		0.98	0.49 ^a			1.01	1.81	3.75	0.94		1.00	1.13		1.71			1.83 ^b	
12 of 32	Expected	1.00		1.00			1.00			3.00	5.00	1.00		2.00	1.00		1.00	1.00	1.00	
	Actual	1.05		1.00			0.94			2.75	4.88	0.88		1.77	1.10		0.79	0.00 ^c	0.75	
13 of 32	Expected	2.00				1.00	1.00			2.00	6.00	1.00		1.00	1.00	1.00		1.00	1.00	
	Actual	1.80				0.91	1.04			1.75	5.69	0.99		1.00	1.05	0.95		0.00 ^c	0.90	
14 of 32	Expected	1.00	1.00			1.00				1.00	4.00	1.00		1.00	1.00	1.00		1.00	1.00	3.00
	Actual	1.09	0.88			0.94				0.75	3.77	0.93		0.96	1.01	1.04		0.00 ^c	1.00	2.85
15 of 32	Expected		2.00			1.00	1.00			1.00	4.00	1.00		1.00	1.00	1.00			1.00	3.00
	Actual		1.85			0.99	1.10			1.11	3.60	1.15		1.00	1.06	0.98			1.10	2.75

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)
16 of 32	Expected	2.00	3.00		1.00	1.00	1.00		2.00	3.00	1.00		1.00					1.00	2.00
	Actual	1.80	2.65		0.57 ^a	0.91	1.10		1.80	2.69	0.84		1.00					1.02	1.91
17 of 32	Expected	3.00	2.00		1.00		2.00	1.00	2.00	3.00	1.00							1.00	1.00
	Actual	2.75	2.00		0.51 ^a		2.00	1.07	1.81	2.80	0.94							1.01	0.96
18 of 32	Expected	3.00	1.00			1.00	2.00	1.00	3.00	2.00	2.00	1.00						1.00	1.00
	Actual	2.71	1.10			1.09	1.99	1.07	1.94 ^b	2.00	1.80	0.90						0.77	0.85
19 of 32	Expected	2.00				1.00	3.00	1.00	2.00	2.00	1.00	1.00				2.00		2.00	1.00
	Actual	1.91				0.90	2.96	1.08	1.26 ^b	1.98	1.00	0.97				1.90		1.85	0.80
20 of 32	Expected	1.00		1.00			2.00	1.00	2.00	3.00	1.00					2.00		2.00	1.00
	Actual	1.02		0.95			2.11	1.10	0.79 ^b	3.00	1.03					2.00		1.75	0.80
21 of 32	Expected	2.00	1.00	2.00			1.00	1.00		3.00				1.00		3.00	1.00	2.00	1.00
	Actual	1.85	1.10	1.71			1.10	1.13		2.85				1.19		2.85	0.00 ^c	2.00	0.95
22 of 32	Expected	1.00	2.00	4.00			1.00	2.00		4.00				1.00		1.00	1.00	1.00	
	Actual	0.90	2.02	3.70			1.00	2.01		3.68				1.10		0.97	0.00 ^c	1.09	
23 of 32	Expected	3.00	2.00	3.00		1.00	1.00	1.00		2.00				1.00			1.00		3.00
	Actual	2.70	2.10	2.65		0.75	1.08	1.10		2.00				1.10			0.00 ^c		2.85
24 of 32	Expected	2.00	2.00	1.00		1.00				2.00		1.00	1.00	1.00	1.00				4.00
	Actual	2.00	2.09	1.00		0.86				2.08		0.98	1.00	1.20	0.98				2.86 ^b
25 of 32	Expected	1.00	1.00			2.00			1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00		4.00
	Actual	0.81	1.10			1.85			1.06	0.98	1.00	0.99	0.93	1.10	0.99	1.80	0.00 ^c		2.46 ^b
26 of 32	Expected	3.00	1.00	1.00		1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	3.00	1.00		
	Actual	2.85	1.11	0.90		1.14	1.00		0.96	1.00	0.95	0.99	1.25		0.97	2.62	0.00 ^c		
27 of 32	Expected	3.00		2.00	1.00		2.00		3.00	1.00	1.00					2.00	1.00		
	Actual	2.70		2.03	0.55 ^a		2.10		1.72 ^b	0.94	1.00					1.80	0.00 ^c		
28 of 32	Expected	4.00		3.00	1.00		3.00		2.00	1.00				1.00	1.00	1.00			1.00
	Actual	3.70		2.95	0.59 ^a		3.00		0.90 ^b	1.10				1.17	0.98	1.01			1.06
29 of 32	Expected	1.00	2.00	2.00		2.00	3.00		3.00	2.00				1.00	1.00				1.00
	Actual	1.04	2.00	1.91		1.70	2.77		1.51 ^b	1.71				0.99	0.95				1.00
30 of 32	Expected	2.00	2.00	1.00		2.00	3.00		1.00	2.00		1.00		2.00	1.00				1.00
	Actual	2.10	2.20	1.00		2.10	3.20		0.80	1.95		0.96		2.10	0.99				1.10
31 of 32	Expected	1.00	1.00	1.00		2.00	4.00		1.00	2.00	1.00	1.00		1.00	1.00		1.00		1.00
	Actual	1.19	1.09	0.96		2.10	4.22		0.80	1.90	1.09	1.06		1.21	1.02		0.00 ^c		1.00
32 of 32	Expected	1.00	1.00	1.00			2.00			2.00	1.00	1.00		1.00	1.00		1.00		1.00
	Actual	1.03	1.00	0.91			2.03			2.00	1.00	0.95		1.10	0.95		0.00 ^c		0.96

^aCys was partially destroyed during hydrolysis

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

^cTrp was completely destroyed during hydrolysis

Date: 23 AUG 2011

Signature:

Dorothy C. Young

Title:

Technical Manager, BEI Authentication or designee

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