

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: N670-1 to N670-32

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	7/27/2006	18	1 LDTEVAASC GG VVLVGLM 18	1734.08	1.47	Crude	88.4%
2 of 32	7/27/2006	18	8 SCGGVVLVGLMALT LSPY 25	1780.19	1.53	Crude	88.6%
3 of 32	7/27/2006	18	15 VGLMALT LSPYKRYISW 32	2161.61	0.35	93.0%	86.3%
4 of 32	7/27/2006	18	22 LSPYKRYISWCMWWLQY 39	2486.97	-0.36	82.9%	87.9%
5 of 32	7/27/2006	18	29 YISWCMWWLQYFLTRVEA 46	2395.85	0.39	96.3%	91.3%
6 of 32	7/27/2006	17	36 WLQYFLTRVEAQLHVWV 52	2188.58	0.39	97.8%	86.5%
7 of 32	7/27/2006	17	42 TRVEAQLHVWV PPLNVR 58	2014.38	-0.08	95.0%	81.5%
8 of 32	7/27/2006	18	48 LHVWV PPLNVRGGRDAVI 65	1998.38	0.37	92.8%	81.4%
9 of 32	7/27/2006	18	55 LNVRGGRDAVILLMCV VH 72	1965.43	1.05	84.8%	81.2%
10 of 32	7/27/2006	18	62 DAVILLMCV V HPTLVFDI 79	1998.5	1.87	84.9%	89.8%
11 of 32	7/27/2006	18	69 CVVHPTLVFDITKLLAI 86	1995.52	1.68	96.5%	85.4%
12 of 32	7/27/2006	18	76 VFDITKLLAI FGPLWIL 93	2072.63	1.84	100.0%	90.1%
13 of 32	7/27/2006	18	83 LLAIFGPLWILQASLLKV 100	1995.54	1.74	94.4%	89.7%
14 of 32	7/27/2006	17	90 LWILQASLLKVPYFVRV 106	2045.56	1.2	95.7%	85.7%
15 of 32	7/27/2006	17	96 SLLKVPYFVRVQGLLRI 112	2001.51	0.86	96.0%	81.4%
16 of 32	7/27/2006	18	102 YFVRVQGLLRICALARKI 119	2119.67	0.84	89.9%	78.8%
17 of 32	7/27/2006	17	109 LLRICALARKIAGGHYV 125	1854.31	0.84	92.0%	76.5%
18 of 32	7/27/2006	18	115 LARKIAGGHYVQMAIIKL 132	1982.48	0.64	95.4%	77.7%
19 of 32	7/27/2006	18	122 GHYVQMAIIKLGALTGT Y 139	1936.32	0.58	97.4%	85.0%
20 of 32	7/27/2006	16	129 IIKLGALTGT YVYNHL 144	1776.13	0.69	91.8%	83.9%
21 of 32	7/27/2006	18	134 ALTGT YVYNHLT PLRDWA 151	2091.37	-0.17	92.4%	85.9%
22 of 32	7/27/2006	18	141 YNHLT PLRDWAHNGLRDL 158	2191.46	-0.96	99.8%	79.4%
23 of 32	7/27/2006	18	148 RDWAHNGLRDLAVAVEPV 165	2018.28	-0.19	96.6%	81.6%
24 of 32	7/27/2006	16	155 LRDLAVAVEPVVFSRM 170	1802.19	0.89	88.6%	84.1%

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
25 of 32	7/27/2006	18	160 VAVEPVVFSRMETKLITW 177	2105.55	0.64	86.5%	86.0%
26 of 32	7/27/2006	17	167 FSRMETKLITWGADTAA 183	1898.18	-0.07	80.7%	84.7%
27 of 32	7/27/2006	16	173 KLITWGADTAACGDII 188	1647.93	0.7	86.6%	87.8%
28 of 32	7/27/2006	18	178 GADTAACGDIINGLPVSA 195	1644.83	0.66	87.7%	87.8%
29 of 32	7/27/2006	18	185 GDIINGLPVSARRGQEIL 202	1908.2	0.03	93.0%	84.8%
30 of 32	7/27/2006	18	192 PVSARRGQEILLGPADGM 209	1867.17	-0.16	92.9%	84.5%
31 of 32	7/27/2006	18	198 GQEILLGPADGMVSKGWR 215	1914.23	-0.21	97.7%	84.8%
32 of 32	7/27/2006	13	205 PADGMVSKGWRL 217	1429.72	-0.04	92.7%	80.7%

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

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	0.58 ^a	1.08	2.99			2.89	0.00	1.19			0.85	1.12			2.77 ^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			0.49 ^a		3.00			4.14		1.11		1.10	1.66	0.96		1.21	1.75 ^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	1.08				0.88		0.86	3.00	1.03	1.08		1.12	1.85	1.01	0.00 ^c	2.82	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		0.46 ^a	0.89			0.81	2.00	1.17	0.66		1.05	1.91		0.00 ^c	3.62	
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	0.83	1.05		0.52 ^a	2.02			0.80	1.83		0.77	1.05		1.00	0.92	0.00 ^c	1.90	0.84
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	1.07			2.70		1.00		2.75			1.10			1.04	0.00 ^c	1.17	2.63
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	1.65	0.93		1.67		1.00		2.00				2.08		0.99	0.00 ^c		3.96
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	1.86	1.89			2.15	1.01	0.54 ^b	1.97				1.98			0.00 ^c		3.36 ^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	0.88	2.10	2.00	0.52 ^a		2.12	0.80	0.55 ^b	2.71		0.71							2.70 ^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		1.66	0.63 ^a			0.95	0.99 ^b	2.65		0.78	1.00	1.13		1.02			2.61 ^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	0.47 ^a			1.01	1.76	3.58	0.94		1.00	1.13		1.62			1.81 ^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	1.06		1.00			0.94		2.72	4.59	0.86		1.57	1.13		0.79	0.00 ^c		0.73
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	1.72				0.91	1.04		1.72	5.69	0.99		1.00	1.05	0.95		0.00 ^c		0.88
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	0.85			0.94			0.74	3.54	0.93		0.96	1.01	1.04		0.00 ^c	1.00	2.81

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)
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		1.82			0.99	1.25		1.11	3.51	1.16		1.00	1.06	1.12			1.15	2.75
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	1.77	2.64		0.55 ^a	0.91	1.14		1.77	2.69	0.84		1.00					1.02	1.86
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		0.49 ^a		2.00	1.07	1.73	2.57	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	2.67	1.23			1.09	1.99	1.07	1.91 ^b	2.00	1.72	0.90						0.77	0.83
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	1.86				0.90	2.96	1.08	1.24 ^b	1.98	1.00	0.97				1.88		1.83	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		0.92			2.22	1.11	0.77 ^b	3.00	1.03					2.00		1.73	0.73
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	1.83	1.15	1.67			1.15	1.13		2.83				1.19		2.82	0.00 ^c	2.00	0.93
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	3.67			1.00	2.01		3.68				1.12		1.02	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	2.64	2.29	2.65		0.73	1.08	1.19		2.00				1.24			0.00 ^c		2.80
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	1.01		0.81				2.08		0.98	1.00	1.20	1.09				2.56 ^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	1.14			1.81			1.06	0.98	1.00	1.15	0.93	1.13	0.99	1.76	0.00 ^c		2.43 ^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	1.23	0.90		1.14	1.10		0.96	1.00	0.93	1.13	1.25		1.13	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	2.66		2.03	0.53 ^a		2.16		1.69 ^b	0.94	1.00					1.79	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	3.66		2.92	0.57 ^a		3.00		0.88 ^b	1.10				1.17	1.09	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	2.02	1.91		1.68	2.77		1.49 ^b	1.67				0.99	0.92				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	2.15	2.21	1.00		2.18	3.25		0.75	1.93		0.96		2.26	1.08				1.12
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		2.15	4.22		0.74	1.85	1.09	1.06		1.32	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	1.01	0.91			2.03			2.00	1.00	0.96		1.15	0.92		0.00 ^c		0.94

^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 APR 2011

Signature:

Dorothy C. Young

Title:

Technical Manager, BEI Authentication or designee

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