

Peptide Array, Hepatitis C Virus, K3a/650, Core Protein

Catalog No. NR-4061

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Product Description: The 29-peptide array spans the core protein of hepatitis C virus, K3a/650 (genotype 3a; GenPept: BAA06044). Peptides are 13- to 18-mers, with 11 or 12 amino acid overlaps.

Lot: T5258-1 to T5258-29

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 29	4/14/2011	18	1 MSTLPKPQRKTKRNTIRR 18	2211.68	-1.81	91.3%	72.8%
2 of 29	4/14/2011	18	7 PQRKTKRNTIRRPQDVKF 24	2268.67	-2.04	98.3%	71.3%
3 of 29	4/14/2011	18	14 NTIRRPQDVKFPGGGVYI 31	2017.34	-0.53	100.0%	81.5%
4 of 29	4/14/2011	17	21 DVKFPGGGVYVGVYVL 37	1782.13	1.11	82.4%	88.7%
5 of 29	4/14/2011	18	27 GGVYVGVYVLPVRRGPRL 44	1971.4	0.44	94.7%	81.0%
6 of 29	4/14/2011	18	34 VYVLPVRRGPRLGVRATRK 51	2094.56	-0.58	88.9%	72.4%
7 of 29	4/14/2011	15	41 GPRLGVRATRKTSER 55	1683.95	-1.35	91.2%	72.5%
8 of 29	4/14/2011	18	45 GVRATRKTSERSQPRGRR 62	2098.38	-2.07	100.0%	69.7%
9 of 29	4/14/2011	18	52 TSERSQPRGRRKPIPKAR 69	2120.47	-2.14	100.0%	70.9%
10 of 29	4/14/2011	18	59 RGRRKPIPKARRSEGRSW 76	2193.57	-2.14	100.0%	68.1%
11 of 29	4/14/2011	18	66 PKARRSEGRSWAQPGYPW 83	2129.39	-1.73	99.0%	78.5%
12 of 29	4/14/2011	18	73 GRSWAQPGYPWPLYGNEG 90	2035.22	-1.17	90.7%	89.9%
13 of 29	4/14/2011	18	80 GYPWPLYGNEGCGWAGWL 97	2026.28	-0.31	99.9%	89.6%
14 of 29	4/14/2011	18	87 GNEGCGWAGWLLSPRGSR 104	1903.13	-0.62	99.0%	84.8%
15 of 29	4/14/2011	15	94 AGWLLSPRGSRPNWA 108	1667.91	-0.58	88.2%	82.0%
16 of 29	4/14/2011	18	98 LSPRGSRPNWAPNDPRRR 115	2132.39	-2.04	98.2%	75.7%
17 of 29	4/14/2011	18	105 PNWAPNDPRRRSRNLGKV 122	2133.42	-1.83	94.3%	75.6%
18 of 29	4/14/2011	15	112 PRRRSRNLGKVIDTL 126	1781.11	-1.07	100.0%	72.5%
19 of 29	4/14/2011	18	116 SRNLGKVIDTLTCGFADL 133	1923.24	0.29	93.1%	84.9%
20 of 29	4/14/2011	18	123 IDTLTCGFADLMGYIPLV 140	1942.34	1.19	90.4%	89.1%
21 of 29	4/14/2011	18	130 FADLMGYIPLVGAPLGA 147	1762.12	1.14	98.0%	88.5%
22 of 29	4/14/2011	17	137 IPLVGAPLGAARALAH 153	1583.91	1	90.2%	82.0%
23 of 29	4/14/2011	16	143 PLGGAARALAHGVRAL 158	1529.82	0.6	91.8%	77.5%
24 of 29	4/14/2011	18	148 ARALAHGVRALDGINFA 165	1881.14	0.26	81.9%	80.5%
25 of 29	4/14/2011	15	155 VRALEDGINFATGNL 169	1589.78	0.18	89.2%	87.5%

Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Hydrophilicity	Purity by HPLC ^a	Peptide Content ^b
26 of 29	4/14/2011	18	159 EDGINFATGNLPGCSFSI 176	1842.03	0.2	94.4%	88.4%
27 of 29	4/14/2011	17	166 TGNLPGCSFSIFLLALF 182	1800.17	1.42	96.1%	88.8%
28 of 29	4/14/2011	18	172 CSFSIFLLALFSLIHPA 189	1982.46	1.89	99.1%	89.4%
29 of 29	4/14/2011	13	179 LALFSLIHPAAS 191	1342.64	1.55	80.1%	86.5%

^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 29	Expected		4.00	1.00		1.00			1.00	1.00	3.00	1.00		2.00	1.00	3.00			
	Actual		3.77	0.89		0.91			0.88	1.00	2.80	1.05		2.00	0.98	2.80			
2 of 29	Expected		4.00	2.00		2.00			1.00		3.00		1.00	2.00		2.00			1.00
	Actual		3.91	1.80		1.75			0.87		2.70		1.05	2.00		1.98			1.01
3 of 29	Expected		2.00	2.00		1.00	3.00		2.00		1.00		1.00	2.00		1.00		1.00	2.00
	Actual		2.00	1.75		0.85	3.05		1.10 ^a		0.95		1.10	1.90		0.88		1.10	1.25 ^a
4 of 29	Expected			1.00			4.00		1.00	1.00	1.00		1.00	1.00				2.00	5.00
	Actual			0.85			3.69		0.48 ^a	0.67	1.03		1.10	1.00				1.70	3.16 ^a
5 of 29	Expected		3.00				4.00		1.00	2.00				2.00				2.00	4.00
	Actual		3.10				3.75		0.48 ^a	1.60				2.00				1.80	2.60 ^a
6 of 29	Expected	1.00	5.00				2.00			2.00	1.00			2.00		1.00		1.00	3.00
	Actual	0.95	4.65				2.10			1.80	0.95			1.88		0.97		1.00	2.76
7 of 29	Expected	1.00	4.00			1.00	2.00			1.00	1.00			1.00	1.00	2.00			1.00
	Actual	0.96	3.81			0.85	2.10			1.00	0.82			1.05	0.96	1.97			0.75
8 of 29	Expected	1.00	6.00			2.00	2.00				1.00			1.00	2.00	2.00			1.00
	Actual	1.00	5.68			1.60	1.95				0.87			1.00	1.67	1.83			1.01
9 of 29	Expected	1.00	5.00			2.00	1.00		1.00		2.00			3.00	2.00	1.00			
	Actual	1.00	4.87			1.80	1.05		1.05		1.82			2.90	1.75	0.99			
10 of 29	Expected	1.00	6.00			1.00	2.00		1.00	2.00	2.00			2.00	2.00		1.00		
	Actual	1.01	6.00			0.93	2.00		0.97		1.90			1.95	1.80		0.00 ^b		
11 of 29	Expected	2.00	3.00			2.00	2.00				1.00			3.00	2.00		2.00	1.00	
	Actual	1.89	3.00			1.79	2.03				0.90			2.90	1.80		0.00 ^b	1.00	
12 of 29	Expected	1.00	1.00	1.00		2.00	4.00			1.00				3.00	1.00		2.00	2.00	
	Actual	0.90	1.11	0.84		1.75	4.06			1.00				2.95	0.88		0.00 ^b	2.10	
13 of 29	Expected	1.00		1.00	1.00	1.00	5.00			2.00				2.00			3.00	2.00	
	Actual	1.03		0.95	0.50 ^c	0.97	4.77			1.95				2.04			0.00 ^b	2.00	
14 of 29	Expected	1.00	2.00	1.00	1.00	1.00	5.00			2.00				1.00	2.00		2.00		
	Actual	1.00	2.15	0.75	0.54 ^c	0.89	4.98			1.90				1.11	1.94		0.00 ^b		
15 of 29	Expected	2.00	2.00	1.00			2.00			2.00				2.00	2.00		2.00		
	Actual	1.88	2.16	0.76			2.00			1.88				2.15	1.95		0.00 ^b		
16 of 29	Expected	1.00	5.00	3.00			1.00			1.00				4.00	2.00		1.00		
	Actual	1.04	4.75	2.78			1.16			1.00				3.65	1.82		0.00 ^b		
17 of 29	Expected	1.00	4.00	4.00			1.00			1.00	1.00			3.00	1.00		1.00		1.00
	Actual	1.08	3.95	3.70			1.13			1.11	0.97			2.88	0.97		0.00 ^b		1.00
18 of 29	Expected		4.00	2.00			1.00		1.00	2.00	1.00			1.00	1.00	1.00			1.00
	Actual		4.00	1.95			1.10		0.68 ^a	1.94	0.94			1.13	0.95	1.02			0.63 ^a

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)
19 of 29	Expected	1.00	1.00	3.00	1.00		2.00		1.00	3.00	1.00		1.00		1.00	2.00			1.00
	Actual	0.93	1.00	2.78	0.48 ^c		1.96		0.59 ^a	2.70	0.74		1.00		0.90	1.81			0.55 ^a
20 of 29	Expected	1.00		2.00	1.00		2.00		2.00	3.00		1.00	1.00	1.00		2.00		1.00	1.00
	Actual	0.88		1.80	0.50 ^c		2.10		1.76	2.80		0.96	0.96	1.00		1.70		0.83	0.88
21 of 29	Expected	3.00		1.00			4.00		1.00	3.00		1.00	1.00	2.00				1.00	1.00
	Actual	2.65		1.00			3.68		0.96	2.88		1.06	1.04	1.91				1.00	0.97
22 of 29	Expected	5.00	1.00				3.00	1.00	1.00	3.00				2.00					1.00
	Actual	4.71	1.00				2.70	1.11	0.86	2.76				1.75					0.95
23 of 29	Expected	5.00	2.00				3.00	1.00		3.00				1.00					1.00
	Actual	4.78	1.80				2.78	1.10		2.70				1.00					1.02
24 of 29	Expected	5.00	2.00	2.00		1.00	2.00	1.00	1.00	2.00			1.00						1.00
	Actual	4.67	2.06	1.85		0.94	2.05	1.07	0.95	1.75			0.95						1.00
25 of 29	Expected	2.00	1.00	3.00		1.00	2.00		1.00	2.00			1.00			1.00			1.00
	Actual	1.89	0.96	2.80		1.00	2.10		1.03	1.86			1.10			1.00			0.96
26 of 29	Expected	1.00		3.00	1.00	1.00	3.00		2.00	1.00			2.00	1.00	2.00	1.00			
	Actual	1.00		2.71	0.57 ^c	0.89	3.08		1.91	1.10			1.74	1.15	1.97	0.98			
27 of 29	Expected	1.00		1.00	1.00		2.00		1.00	4.00			3.00	1.00	2.00	1.00			
	Actual	1.00		0.80	0.60 ^c		2.10		0.74	3.71			2.66	1.10	1.80	0.97			
28 of 29	Expected	2.00			2.00			1.00	2.00	4.00			3.00	1.00	3.00				
	Actual	2.00			0.88 ^c			0.81	1.71	3.68			2.70	1.16	2.71				
29 of 29	Expected	3.00			1.00			1.00	1.00	3.00			1.00	1.00	2.00				
	Actual	2.90			0.60 ^c			0.93	0.90	2.81			1.10	1.12	2.00				

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

^bTrp was completely destroyed during hydrolysis

^cCys was partially destroyed during hydrolysis

Date: 12 OCT 2011

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication

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