

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: N838-1 to N838-29

The following information applies to all peptides:

- Appearance
- Mass spectral analysis
- Counter Ion

White lyophilized powder
Correct MW by MALDI-TOF
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	9/15/2006	18	1 MSTLPKPQRKTKRNTIRR 18	2211.68	-1.81	97.7%	70.8%
2 of 29	9/15/2006	18	7 PQRKTKRNTIRRQDVKF 24	2268.67	-2.04	97.6%	71.3%
3 of 29	9/15/2006	18	14 NTIRRPQDVKFPGGVIY 31	2017.34	-0.53	98.3%	81.6%
4 of 29	9/15/2006	17	21 DVKFPGGVIYGVVYL 37	1782.13	1.11	82.1%	88.7%
5 of 29	9/15/2006	18	27 GGVIYGVVYLPRRGPR 44	1971.4	0.44	98.6%	81.2%
6 of 29	9/15/2006	18	34 VVYLPRRGPRLGVRATRK 51	2094.56	-0.58	97.6%	72.4%
7 of 29	9/15/2006	15	41 GPRLGVRATRKTSER 55	1683.95	-1.35	96.2%	71.1%
8 of 29	9/15/2006	18	45 GVRATRKTSERSQPRGR 62	2098.38	-2.07	98.8%	69.7%
9 of 29	9/15/2006	18	52 TSERSQPRGRRKPIPKAR 69	2120.47	-2.14	81.3%	69.9%
10 of 29	9/15/2006	18	59 RGRRKPIPKARRSEGRSW 76	2193.57	-2.14	97.7%	68.1%
11 of 29	9/15/2006	18	66 PKARRSEGRSWAQPGYPW 83	2129.39	-1.73	100.0%	78.9%
12 of 29	9/15/2006	18	73 GRSWAQPGYPWPLYGNEG 90	2035.22	-1.17	95.0%	89.9%
13 of 29	9/15/2006	18	80 GYPWPLYGNEGCGWAGWL 97	2026.28	-0.31	92.7%	89.9%
14 of 29	9/15/2006	18	87 GNEGCGWAGWLLSPRGSR 104	1903.13	-0.62	80.1%	84.8%
15 of 29	9/15/2006	15	94 AGWLLSPRGSRPNWA 108	1667.91	-0.58	83.6%	83.0%
16 of 29	9/15/2006	18	98 LSPRGSRPNWAPNDPRRR 115	2132.39	-2.04	92.7%	75.7%
17 of 29	9/15/2006	18	105 PNWAPNDPRRRSRNLGKV 122	2133.42	-1.83	94.4%	75.7%
18 of 29	9/15/2006	15	112 PRRRSRNLGKVIDTL 126	1781.11	-1.07	92.6%	72.3%
19 of 29	9/15/2006	18	116 SRNLGKVIDTLTCGFADL 133	1923.24	0.29	88.5%	84.9%
20 of 29	9/15/2006	18	123 IDTLTCGFADLMGYIPLV 140	1942.34	1.19	80.2%	89.5%
21 of 29	9/15/2006	18	130 FADLMGYIPLVGAPLGG 147	1762.12	1.14	80.8%	88.5%
22 of 29	9/15/2006	17	137 IPLVGAPLGGAAARALAH 153	1583.91	1	94.8%	82.2%
23 of 29	9/15/2006	16	143 PLGGAARALAHGVRAL 158	1529.82	0.6	97.6%	77.0%
24 of 29	9/15/2006	18	148 ARALAHGVRALGGINFA 165	1881.14	0.26	98.1%	80.5%
25 of 29	9/15/2006	15	155 VRALEDGINFATGNL 169	1589.78	0.18	90.5%	87.5%
26 of 29	9/15/2006	18	159 EDGINFATGNLPGCSFSI 176	1842.03	0.2	97.5%	89.0%
27 of 29	9/15/2006	17	166 TGNLPGCSFSIFLLALF 182	1800.17	1.42	90.6%	88.8%
28 of 29	9/15/2006	18	172 CSFIFLLALFSLIHPA 189	1982.46	1.89	81.7%	89.7%
29 of 29	9/15/2006	13	179 LALFSLIHPAAS 191	1342.64	1.55	93.6%	85.5%

^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 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		0.88			0.88	1.00	2.80	1.05		2.01	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	1.75		1.75			0.87		2.61		1.05	2.00		2.11			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	1.63		0.85	3.05		1.07 ^a		0.91		1.19	1.90		0.88		1.11	1.22 ^a
4 of 29	Expected			1.00			4.00		1.00	1.00	1.00		1.00	1.00				2.00	5.00
	Actual			0.82			3.69		0.47 ^a	0.67	1.03		1.12	1.00				1.61	3.13 ^a
5 of 29	Expected		3.00				4.00		1.00	2.00				2.00				2.00	4.00
	Actual		3.17				3.75		0.46 ^a	1.56				2.00				1.76	2.58 ^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	4.63				2.17			1.80	0.92			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	3.78			0.82	2.16			1.00	0.82			1.05	0.96	1.97			0.72
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	1.91				0.87			1.00	1.67	1.79			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			1.79	1.05		1.05		1.75			2.90	1.71	1.17			
10 of 29	Expected	1.00	6.00			1.00	2.00		1.00		2.00			2.00	2.00		1.00		
	Actual	1.01	6.00			0.93	2.00		0.97		1.83			1.92	1.77		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	3.01			1.79	2.03				0.87			2.90	1.78		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	1.25	0.84		1.68	4.06			1.00				2.95	0.86		0.00 ^b	2.19	
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		0.91	0.48 ^c	0.97	4.77			1.92				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	2.25	0.72	0.53 ^c	0.89	4.98			1.91				1.19	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	2.26	0.71			2.00			1.88				2.15	1.91		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	2.68			1.16			1.00				3.63	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	3.91	3.66			1.23			1.11	0.97			2.88	0.97	0.00	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			1.17		0.67 ^a	1.93	0.94			1.13	1.07	1.02			0.64 ^a
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	0.47 ^c		1.96		0.57 ^a	2.66	0.74		1.00		0.90	1.60			0.54 ^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	0.48 ^c		2.12		1.76	2.77		0.96	0.96	1.00		1.62		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	2.65		1.06	1.04	1.86				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	4.66	1.00				2.70	1.12	0.86	2.72				1.72					0.91
23 of 29	Expected	5.00	2.00				3.00	1.00		3.00				1.00					1.00
	Actual	4.78	1.73				2.78	1.15		2.65				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	1.82		0.94	2.05	1.07	0.92	1.75			0.93						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	2.74		1.00	2.14		1.03	1.86	0.00	0.00	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		2.69	0.56 ^c	0.89	3.08		1.81	1.10			1.74	1.15	1.97	1.01			
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	0.59 ^c		2.16		0.74	3.63			2.66	1.19	1.80	1.01			

Tabl

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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)
28 of 29	Expected	2.00			2.00			1.00	2.00	4.00			3.00	1.00	3.00				
	Actual	2.00			0.86 ^c			0.71	1.71	3.68			2.65	1.16	2.62				
29 of 29	Expected	3.00			1.00			1.00	1.00	3.00			1.00	1.00	2.00				
	Actual	2.90			0.58 ^c			0.93	0.90	2.71			1.15	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: 22 JAN 2007

Signature: Signature on File

Title: Technical Manager, BEI Authentication

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