

Peptide Array, Hepatitis C Virus, J4, Core Protein

Catalog No. NR-3737

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Product Description: The 28-peptide array spans the core protein of hepatitis C virus, J4 (genotype 1b; GenPept: BAA01583). Peptides are 13- to 19-mers, with 11 or 12 amino acid overlaps.

Lot: N656-1 to N656-28

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 28	7/27/2006	18	1 MSTNPKPQRKTKRNTNRR 18	2213.57	-2.66	92.3%	70.8%
2 of 28	7/27/2006	18	7 PQRKTKRNTNRRPQDVKF 24	2269.62	-2.49	98.9%	71.3%
3 of 28	7/27/2006	18	14 NTNRRPQDVKFPGGGQIV 31	1983.23	-1.1	99.8%	81.3%
4 of 28	7/27/2006	17	21 DVKFPGGGQIVGGVYLL 37	1719.03	0.69	97.0%	88.3%
5 of 28	7/27/2006	18	27 GGQIVGGVYLLPRRGPRL 44	1908.30	0.04	98.2%	80.7%
6 of 28	7/27/2006	18	34 VYLLPRRGPRLGVRATRK 51	2108.59	-0.6	99.0%	72.5%
7 of 28	7/27/2006	15	41 GPRLGVRATRKASER 55	1653.92	-1.18	91.1%	70.7%
8 of 28	7/27/2006	18	45 GVRATRKASERSQPRGRR 62	2068.35	-1.93	99.3%	69.4%
9 of 28	7/27/2006	18	52 ASERSQPRGRRQPIPKAR 69	2090.40	-1.98	99.9%	72.4%
10 of 28	7/27/2006	18	59 RRRQPIPKARRPEGRAW 76	2187.56	-2.02	99.8%	70.6%
11 of 28	7/27/2006	18	66 PKARRPEGRAWAQPGYPW 83	2123.43	-1.63	97.8%	78.8%
12 of 28	7/27/2006	19	73 GRAWAQPGYPWPLYGNEGL 91	2132.38	-0.77	99.5%	90.3%
13 of 28	7/27/2006	18	81 YPWPLYGNEGLWAGWLL 98	2092.40	-0.01	99.8%	90.2%
14 of 28	7/27/2006	17	88 NEGLWAGWLLSPRGRS 104	1856.09	-0.55	99.0%	84.4%
15 of 28	7/27/2006	18	94 AGWLLSPRGRSRSWGPTD 111	1940.17	-0.78	99.4%	85.0%
16 of 28	7/27/2006	17	101 RGRSPSWGPTDPRRRSR 117	2024.25	-2.36	99.9%	71.7%
17 of 28	7/27/2006	17	107 WGPTDPRRRSRNLGKVI 123	2008.33	-1.34	98.9%	74.6%
18 of 28	7/27/2006	18	113 RRRSRNLGKVIDTLTCGF 130	2092.47	-0.57	99.2%	75.4%
19 of 28	7/27/2006	18	120 GKVIDTLTCGFADLMGYI 137	1917.29	0.83	96.7%	89.4%
20 of 28	7/27/2006	18	127 TCGFADLMGYIPLVGAPL 144	1838.23	1.17	99.9%	89.0%
21 of 28	7/27/2006	18	134 MGYIPLVGAPLGGAAARAL 151	1727.12	1.03	99.7%	88.3%
22 of 28	7/27/2006	18	141 GAPLGGAAARALAHGVRVL 158	1686.01	0.74	98.0%	78.7%
23 of 28	7/27/2006	18	148 ARALAHGVRVLEDGVNYA 165	1911.17	0.14	98.4%	80.7%
24 of 28	7/27/2006	15	155 VRVLEDGVNYATGNL 169	1619.81	0.05	94.2%	87.7%
25 of 28	7/27/2006	18	159 EDGVNYATGNLPGCSFSI 176	1844.00	-0.04	95.7%	89.0%
26 of 28	7/27/2006	17	166 TGNLPGCSFSIFLLALL 182	1766.15	1.48	99.2%	88.6%
27 of 28	7/27/2006	18	172 CSFSIFLLALLSCLTIPA 189	1912.40	2.08	Crude	89.3%
28 of 28	7/27/2006	13	179 LALLSCLTIPASA 191	1272.58	1.82	99.2%	84.8%

^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 28	Expected		4.00	3.00		1.00					3.00	1.00		2.00	1.00	3.00			
	Actual		3.68	3.09		0.86					2.67	1.04		2.00	1.03	2.69			
2 of 28	Expected		4.00	3.00		2.00					3.00		1.00	2.00		2.00			1.00
	Actual		4.00	3.05		1.98					2.80		1.13	2.03		1.96			0.90
3 of 28	Expected		2.00	3.00		2.00	3.00		1.00		1.00		1.00	2.00		1.00			2.00
	Actual		2.00	3.30		1.88	3.22		0.66 ^a		0.88		1.10	2.00		0.92			1.45 ^a
4 of 28	Expected			1.00		1.00	5.00		1.00	2.00	1.00		1.00	1.00				1.00	3.00
	Actual			1.03		1.07	5.34		0.64 ^a	1.95	1.06		0.93	1.00				0.79	1.72 ^a
5 of 28	Expected		3.00			1.00	5.00		1.00	3.00				2.00				1.00	2.00
	Actual		3.11			0.95	4.97		0.61 ^a	2.63				2.09				1.00	1.30 ^a
6 of 28	Expected	1.00	5.00				2.00			3.00	1.00			2.00		1.00		1.00	2.00
	Actual	1.00	4.56				1.93			2.50	1.08			2.08		0.99		1.08	1.72
7 of 28	Expected	2.00	4.00			1.00	2.00			1.00	1.00			1.00	1.00	1.00			1.00
	Actual	2.00	3.66			1.05	2.01			0.98	0.96			0.98	1.07	1.11			0.87
8 of 28	Expected	2.00	6.00			2.00	2.00				1.00			1.00	2.00	1.00			1.00
	Actual	1.93	6.03			2.05	1.75				0.95			1.00	1.83	1.07			0.79
9 of 28	Expected	2.00	5.00			3.00	1.00		1.00		1.00			3.00	2.00				
	Actual	1.72	4.51			2.68	1.02		1.04		0.87			3.00	1.73				
10 of 28	Expected	2.00	6.00			2.00	2.00		1.00		1.00			3.00			1.00		
	Actual	2.00	5.58			1.96	1.90		0.98		0.96			3.02			0.00 ^b		
11 of 28	Expected	3.00	3.00			2.00	2.00							4.00			2.00	1.00	
	Actual	2.90	3.00			1.86	2.11				1.03			3.99			0.00 ^b	1.16	
12 of 28	Expected	2.00	1.00	1.00		2.00	4.00			2.00				3.00			2.00	2.00	
	Actual	1.79	1.07	0.97		1.71	3.82			1.67				3.00			0.00 ^b	2.20	
13 of 28	Expected	1.00		1.00		1.00	4.00			4.00				2.00			3.00	2.00	
	Actual	0.98		1.08		1.00	3.86			3.66				2.00			0.00 ^b	1.94	
14 of 28	Expected	1.00	2.00	1.00		1.00	4.00			3.00				1.00	2.00		2.00		
	Actual	0.95	2.23	0.97		0.93	3.90			3.00				1.08	1.91		0.00 ^b		
15 of 28	Expected	1.00	2.00	1.00			3.00			2.00				3.00	3.00	1.00	2.00		
	Actual	1.00	1.99	0.98			2.84			1.82				3.07	2.72	0.98	0.00 ^b		
16 of 28	Expected		6.00	1.00			2.00							3.00	3.00	1.00	1.00		
	Actual		5.39	1.06			2.05							3.00	2.77	1.00	0.00 ^b		
17 of 28	Expected		4.00	2.00			2.00		1.00	1.00	1.00			2.00	1.00	1.00	1.00		1.00
	Actual		3.65	2.20			2.03		0.62 ^a	0.99	1.00			2.06	1.01	0.96	0.00 ^b		0.64 ^a
18 of 28	Expected		4.00	2.00	1.00		2.00		1.00	2.00	1.00		1.00		1.00	2.00			1.00
	Actual		3.83	2.14	0.53 ^c		2.25		0.55 ^a	2.00	0.97		0.99		1.11	1.75			0.62 ^a
19 of 28	Expected	1.00			2.00	1.00	3.00		2.00	2.00	1.00	1.00				2.00		1.00	1.00
	Actual	1.00		1.83	0.55 ^c		3.02		1.37 ^a	1.79	0.88	1.00	1.11			1.61		0.73	0.58 ^a
20 of 28	Expected	2.00		1.00	1.00		3.00		1.00	3.00		1.00	1.00	2.00		1.00		1.00	1.00
	Actual	1.94		0.90	0.54 ^c		2.99		0.85	2.65		1.12	1.20	2.00		0.69		0.88	1.11
21 of 28	Expected	4.00	1.00				4.00		1.00	3.00		1.00		2.00				1.00	1.00
	Actual	3.61	1.22				4.06		1.05	2.61		1.10		2.00				0.90	1.06
22 of 28	Expected	5.00	2.00				4.00	1.00		3.00				1.00					2.00
	Actual	5.00	1.91				4.11	1.11		2.76				1.14					1.79
23 of 28	Expected	4.00	2.00	2.00		1.00	2.00	1.00		2.00								1.00	3.00
	Actual	3.72	1.79	2.20		1.03	1.98	1.09		1.70								1.00	2.76
24 of 28	Expected	1.00	1.00	3.00		1.00	2.00			2.00						1.00		1.00	3.00
	Actual	1.00	0.90	3.07		0.96	2.08			1.74						0.92		1.07	2.74
25 of 28	Expected	1.00		3.00	1.00	1.00	3.00		1.00	1.00			1.00	1.00	2.00	1.00		1.00	1.00
	Actual	1.01		2.99	0.58 ^c	1.03	2.82		0.94	0.96			0.86	1.00	1.81	0.87		0.86	0.96
26 of 28	Expected	1.00		1.00	1.00		2.00		1.00	5.00			2.00	1.00	2.00	1.00			
	Actual	0.83		0.84	0.48 ^c		2.20		0.75	4.59			1.58	1.00	1.94	0.96			
27 of 28	Expected	2.00			2.00				2.00	5.00			2.00	1.00	3.00	1.00			
	Actual	2.04			1.03 ^c				1.75	4.72			1.63	1.00	2.71	0.76			
28 of 28	Expected	3.00			1.00				1.00	4.00				1.00	2.00	1.00			0.00
	Actual	3.07			0.59 ^c				0.91	3.73				1.26	2.00	0.89			0.00

^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: 27 DEC 2006

Signature: Signature on File

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