

Peptide Array, Influenza Virus A/New York/348/2003 (H1N1) Nonstructural Protein 2

Catalog No. NR-2615

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Product Description: A 19-peptide array spanning the nonstructural protein 2 (NS2) of the A/New York/348/2003 (H1N1) strain of influenza virus (GenBank: ABA12735). Peptides are 13- to 17-mers, with 11 amino acid overlaps.

Lot: N35-1 to N35-19

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 19	1/30/2006	17	1 MDSHTVSSFQDILMRMS 17	1985.30	-0.66	82.7%	70.0%
2 of 19	1/30/2006	17	7 SSFQDILMRMSKMLGS 23	1959.35	-0.11	81.0%	76.0%
3 of 19	1/30/2006	17	13 LMRMSKMLGSSSGDLN 29	1855.20	-0.34	87.1%	82.0%
4 of 19	1/30/2006	17	19 MQLGSSSGDLNGMITQF 35	1786.03	0.02	95.2%	76.0%
5 of 19	1/30/2006	17	25 SGDLNGMITQFESLKLY 41	1916.20	-0.10	89.7%	71.0%
6 of 19	1/30/2006	17	31 MITQFESLKLYRDSLGE 47	2030.35	-0.34	83.1%	72.0%
7 of 19	1/30/2006	17	37 SLKLYRDSLGEAVMRLG 53	1908.27	-0.03	99.2%	83.0%
8 of 19	1/30/2006	17	43 DSLGEAVMRLGDLHSLQ 59	1841.09	-0.06	97.7%	76.0%
9 of 19	1/30/2006	17	49 VMRLGDLHSLQHRNGKW 65	2047.39	-0.87	93.7%	76.0%
10 of 19	1/30/2006	17	55 LHSLQHRNGKWREQLGQ 71	2087.35	-1.64	96.2%	79.0%
11 of 19	1/30/2006	17	61 RNGKWREQLGQKFEEIR 77	2174.47	-1.94	99.9%	73.0%
12 of 19	1/30/2006	17	67 EQLGQKFEEIRWLIEEV 83	2146.45	-0.62	97.3%	70.0%
13 of 19	1/30/2006	17	73 FEEIRWLIEEVRHKLKT 89	2226.63	-0.71	94.4%	72.0%
14 of 19	1/30/2006	17	79 LIEEVRHKLKTTENSFE 95	2073.35	-0.95	99.7%	77.0%
15 of 19	1/30/2006	17	85 HKLKTTENSFEQITFMQ 101	2082.38	-0.92	90.7%	84.0%
16 of 19	1/30/2006	17	91 ENSFEQITFMQALQLLF 107	2059.39	0.32	82.3%	69.0%
17 of 19	1/30/2006	17	97 ITFMQALQLLFEVEQEI 113	2052.44	0.72	93.3%	74.0%
18 of 19	1/30/2006	17	103 LQLLFEVEQEIRTFSFQ 119	2127.44	0.09	91.2%	70.0%
19 of 19	1/30/2006	13	109 VEQEIRTFSFQLI 121	1609.86	0.20	88.8%	75.0%

^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 19	Expected		1.00	2.00		1.00		1.00	1.00	1.00		3.00	1.00		4.00	1.00			1.00
	Actual		1.04	2.10		1.02		0.97	0.87	0.81		2.83	1.02		3.91	0.88			0.91
2 of 19	Expected		1.00	1.00		2.00	1.00		1.00	2.00	1.00	3.00	1.00		4.00				
	Actual		1.13	1.06		2.05	0.97		0.93	1.94	0.96	3.03	1.08		4.03				
3 of 19	Expected		1.00	2.00		1.00	2.00			3.00	1.00	3.00			4.00				
	Actual		1.09	0.93		1.07	2.11			2.83	0.98	2.73			4.09				
4 of 19	Expected			2.00		2.00	3.00		1.00	2.00		2.00	1.00		3.00	1.00			
	Actual			2.02		2.03	3.05		0.90	2.02		1.92	1.12		2.95	0.93			
5 of 19	Expected			2.00		2.00	2.00		1.00	3.00	1.00	1.00	1.00		2.00	1.00		1.00	
	Actual			1.92		1.90	2.03		0.87	2.71	0.95	0.93	1.06		1.98	0.82		0.92	
6 of 19	Expected		1.00	1.00		3.00	1.00		1.00	3.00	1.00	1.00	1.00		2.00	1.00		1.00	
	Actual		0.96	1.01		3.00	0.96		0.95	2.79	1.05	0.91	1.12		1.81	0.80		1.09	
7 of 19	Expected	1.00	2.00	1.00		1.00	2.00			4.00	1.00	1.00			2.00			1.00	1.00
	Actual	1.01	1.89	1.09		1.06	2.00			3.79	0.93	0.91			1.82			0.98	0.94
8 of 19	Expected	1.00	1.00	2.00		2.00	2.00	1.00		4.00		1.00			2.00				1.00
	Actual	0.97	0.88	1.93		2.02	2.05	1.06		3.77		0.88			1.83				0.89
9 of 19	Expected		2.00	2.00		1.00	2.00	2.00		3.00	1.00	1.00			1.00		1.00		1.00
	Actual		1.89	1.90		1.08	1.91	1.93		3.08	1.00	0.85			0.89		0.00 ^a		0.96
10 of 19	Expected		2.00	1.00		4.00	2.00	2.00		3.00	1.00				1.00		1.00		
	Actual		2.01	1.04		3.91	1.97	2.01		2.80	0.91				1.08		0.00 ^a		
11 of 19	Expected		3.00	1.00		5.00	2.00		1.00	1.00	2.00		1.00				1.00		
	Actual		3.02	0.99		5.01	2.04		0.93	1.10	2.02		1.06				0.00 ^a		
12 of 19	Expected		1.00			7.00	1.00		2.00	2.00	1.00		1.00				1.00		1.00
	Actual		0.98			7.02	1.04		1.97	2.04	1.05		0.86				0.00 ^a		1.02
13 of 19	Expected		2.00			4.00		1.00	2.00	2.00	2.00		1.00			1.00	1.00		1.00
	Actual		1.89			3.98		1.03	1.89	2.09	2.00		0.89			1.14	0.00 ^a		1.03
14 of 19	Expected		1.00	1.00		4.00		1.00	1.00	2.00	2.00		1.00		1.00	2.00			1.00
	Actual		0.96	1.05		4.08		1.02	0.85	2.01	2.03		0.91		1.04	1.99			1.05
15 of 19	Expected			1.00		4.00		1.00	1.00	1.00	2.00	1.00	2.00		1.00	3.00			
	Actual			1.14		3.91		0.87	1.04	0.93	1.83	1.01	1.89		1.06	2.85			
16 of 19	Expected	1.00		1.00		5.00			1.00	3.00		1.00	3.00		1.00	1.00			
	Actual	0.94		1.10		5.00			0.84	2.87		0.82	2.83		1.06	0.89			
17 of 19	Expected	1.00				6.00			2.00	3.00		1.00	2.00			1.00			1.00
	Actual	0.97				6.07			2.03	3.07		0.89	1.81			0.85			0.96
18 of 19	Expected		1.00			6.00			1.00	3.00			3.00		1.00	1.00			1.00
	Actual		0.91			5.92			0.94	2.89			3.12		0.98	1.01			0.86
19 of 19	Expected		1.00			4.00			2.00	1.00			2.00		1.00	1.00			1.00
	Actual		0.92			4.00			1.89	1.00			2.02		1.01	1.06			0.89

^aTrp was completely destroyed during hydrolysis

Date: 17 JUN 2014

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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