

Peptide Array West Nile Virus Protein NS4a

Catalog No. NR-440

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Product Description: An 18-peptide array spanning the NS4a protein of the NY99-flamingo382-99 strain of West Nile Virus. Peptides are 17- to 18-mers, with 10 or 11 amino acid overlaps. Each vial contains 1 mg of lyophilized NR-440.

Lot: 3745095

The following information applies to all 18 peptides:

- Appearance White lyophilized powder
- Mass spectral analysis Electrospray “Exhibits correct MW”
- Counter Ion Trifluoroacetate

Peptide-specific information is shown in the two tables below.

Table 1						
Peptide	Date of Mfg.	Length	Sequence	Molecular Weight (amu)	Purity by HPLC ^a	Peptide Content ^b
1	7/23/04	17	SQIGLIEVLGKMPEHFM	1929.3	96.2%	86%
2	7/1/04	17	VLGKMPEHFMGKTWEAL	1974.4	95.7%	80%
3	7/21/04	17	HFMGKTWEALDTMYVVA	1999.3	90.7%	86%
4	7/6/04	18	EALDTMYVVATAEKGGRA	1882.1	90.4%	84%
5	7/7/04	18	VATAEKGGRAHRMALEEL	1939.2	97.1%	76%
6	7/6/04	18	RAHRMALEELPDALQTIA	2035.4	93.2%	81%
7	8/10/04	18	ELPDALQTIALIALLSVM	1911.3	87.6%	89%
8	8/16/04	18	IALIALLSVMTMGVFFLL	1952.5	15.3%	89%
9	8/9/04	18	VMTMGVFFLLMQRKGIGK	2056.6	71.5%	82%
10	7/27/04	18	LLMQRKGIGKIGLGGAVL	1824.3	92.0%	79%
11	8/11/04	18	GKIGLGGAVLGVATFFCW	1796.2	35.3%	90%
12	8/9/04	18	VLGVATFFCWMAEVPGTK	1956.4	44.2%	89%
13	7/29/04	17	CWMAEVPGTKIAGMLLL	1833.3	90.3%	89%
14	8/11/04	18	GTKIAGMLLLSLLMIVL	1899.5	40.8%	89%
15	8/11/04	18	LLSLLMIVLIPEPEKQR	2105.6	49.3%	89%
16	7/1/04	18	VLIPEPEKQRSQTDNQLA	2066.3	92.0%	85%
17	8/9/04	18	KQRSQTDNQLAVFLICVM	2094.5	75.3%	86%
18	8/17/04	18	QLAVFLICVMTLVSAAV	1849.3	35.1%	89%

^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	Expected					3.00	2.00	1.00	2.00	2.00	1.00	2.00	1.00	1.00	1.00				1.00
	Actual					3.01	2.00	1.00	2.01	1.99	1.00	1.98	1.00	1.00	1.00				1.00
2	Expected	1.00				2.00	2.00	1.00		2.00	2.00	2.00	1.00	1.00		1.00	1.00		1.00
	Actual	1.00				1.99	2.00	1.00		2.01	2.01	2.00	1.00	1.01		0.99	0.00 ^b		1.00
3	Expected	2.00		1.00		1.00	1.00	1.00		1.00	1.00	2.00	1.00			2.00	1.00	1.00	2.00
	Actual	1.99		1.01		1.02	1.00	1.00		1.01	1.00	1.98	1.00			1.98	0.00 ^b	1.00	1.58 ^a
4	Expected	4.00	1.00	1.00		2.00	2.00			1.00	1.00	1.00				2.00		1.00	2.00
	Actual	4.01	1.00	1.00		2.00	1.98			1.00	1.01	1.00				2.01		1.00	1.52 ^a
5	Expected	4.00	2.00			3.00	2.00	1.00		2.00	1.00	1.00				1.00			1.00
	Actual	4.01	2.00			3.02	1.98	0.99		1.98	1.00	1.00				0.99			1.00
6	Expected	4.00	2.00	1.00		3.00	1.00	1.00	1.00	3.00		1.00		1.00		1.00			
	Actual	4.03	2.00	1.00		3.01		0.98	1.00	2.97		0.99		1.00		1.00			
7	Expected	3.00		1.00		2.00			2.00	5.00		1.00		1.00	1.00	1.00			1.00
	Actual	3.02		1.00		1.99			2.01	5.03		0.99		0.98	1.00	1.00			1.00
8	Expected	2.00					1.00		2.00	5.00		2.00	2.00		1.00	1.00			2.00
	Actual	2.01					1.00		2.01	4.97		1.98	2.00		0.98	1.00			2.01
9	Expected		1.00			1.00	3.00		1.00	2.00	2.00	3.00	2.00			1.00			2.00
	Actual		1.00			1.00	3.02		0.99	2.01	1.99	3.00	2.01			0.99			1.97
10	Expected	1.00	1.00			1.00	5.00		2.00	4.00	2.00	1.00							1.00
	Actual	1.01	1.00			1.00	5.03		2.01	3.95	1.99	1.00							0.99
11	Expected	2.00			1.00		5.00		1.00	2.00	1.00		2.00			1.00	1.00		2.00
	Actual	2.01			0.47 ^c		5.04		1.00	2.00	1.00		2.01			0.98	0.00 ^b		1.98
12	Expected	2.00			1.00	1.00	2.00			1.00	1.00	1.00	2.00	1.00		2.00	1.00		3.00
	Actual	1.99			0.49 ^c	1.00	2.00			1.00	0.98	1.02	2.01	1.00		2.00	0.00 ^b		3.01
13	Expected	2.00			1.00	1.00	2.00		1.00	3.00	1.00	2.00		1.00		1.00	1.00		1.00
	Actual	2.00			0.49 ^c	1.00	2.00		1.00	2.97	1.01	2.02		1.00		0.98	0.00 ^b		0.99
14	Expected	1.00				2.00	2.00	7.00	1.00	2.00	2.00				1.00	1.00			1.00
	Actual	0.99				1.99	2.01	7.06	1.00	1.98					0.97	1.00			0.99
15	Expected		1.00			3.00			2.00	6.00	1.00	1.00		2.00	1.00				1.00
	Actual		1.00			3.00			2.02	5.95	1.00	1.00		1.99	1.01				0.98
16	Expected	1.00	1.00	2.00		5.00			1.00	2.00	1.00			2.00	1.00	1.00			1.00
	Actual	1.01	0.99	2.00		4.97			1.01	2.00	1.00			2.02	1.00	1.00			1.00
17	Expected	1.00	1.00	2.00	1.00	3.00			1.00	2.00	1.00	1.00	1.00		1.00	1.00			2.00
	Actual	0.99	1.00	2.01	0.52 ^c	3.02			1.00	1.97	1.00	1.00	1.00		1.01	0.99			1.99
18	Expected	4.00			1.00	1.00			1.00	3.00		1.00	1.00		1.00	1.00			4.00
	Actual	4.03			0.55 ^c	0.98			1.00	2.98		1.01	1.01		1.00	1.00			3.97

^aVal-Val bond was only partially destroyed during hydrolysis

^bTrp was completely destroyed during hydrolysis

^cCys was partially destroyed during hydrolysis

Date: 24 JUL 2014

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication

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