

Peptide Array, West Nile Virus Pre-M Protein

Catalog No. NR-433

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Product Description: A 12-peptide array spans the Pre-M protein of the NY99-flamingo382-99 strain of West Nile Virus. Peptides are 14- to 18-mers, with 10 amino acid overlaps. Each vial contains 1 mg of lyophilized NR-433. **Note: Three additional amino acids (VGA) have been added to the N-terminus of Peptide 1.**

Lot: 3745088

The following information applies to all 12 peptides:

- Appearance
- Mass spectral analysis
- Counter Ion

White lyophilized powder
Electrospray "Exhibits correct MW"
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	8/9/2004	17	VGAVTLSNFQ GKVM MTV	1782.2	64.7%	89%
2	8/11/2004	18	NFQ GKVM MTV NATD VTDV	1970.2	10.6%	88%
3	8/11/2004	17	TV NATD VTDV ITPTAA	1701.9	46.8%	89%
4	6/28/2004	18	TDV ITPTAAGKNLCIVR	1885.2	94.9%	84%
5	8/9/2004	17	AAGKNLCIVRAMDVG YM	1812.2	48.6%	85%
6	8/9/2004	17	IVRAMDVG YMCDDTITY	1966.3	35.6%	89%
7	8/10/2004	17	GYMCDDTITYECPVLSA	1881.1	67.2%	89%
8	6/28/2004	17	ITYECPVLSAGNDPEDI	1836.0	90.4%	89%
9	7/6/2004	18	LSAGNDPEDIDCWCTKSA	1925.1	90.4%	89%
10	8/9/2004	17	DIDCWCTKSAVYVRYGR	2035.3	53.7%	82%
11	6/28/2004	18	KSAVYVRYGRCTKTRHSR	2168.5	92.5%	68%
12	8/16/2004	14	GRCTKTRHSRRSR	1757.0	97.5%	67%

^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	1.00		1.00		1.00	2.00			1.00	1.00	2.00	1.00		1.00	2.00			4.00
	Actual	1.00		1.00		1.00	1.99			0.99	0.99	2.00	1.01		1.00	2.01			4.05
2	Expected	1.00		4.00		1.00	1.00				1.00	2.00	1.00			3.00			4.00
	Actual	1.00		4.03		1.00	1.00				0.98	1.98	0.98			2.99			4.01
3	Expected	3.00		3.00					2.00					1.00		5.00			3.00
	Actual	2.97		3.02					1.73 ^a					1.00		5.02			2.73 ^a
4	Expected	2.00	1.00	2.00	1.00		1.00		3.00	1.00	1.00			1.00		3.00			2.00
	Actual	1.99	1.00	1.99	0.56 ^b		1.02		2.73 ^a	1.00	1.00			0.99		3.01			1.77 ^a
5	Expected	3.00	1.00	2.00	1.00		2.00		1.00	1.00	1.00	2.00						1.00	2.00
	Actual	2.98	1.00	2.01	0.53 ^b		2.01		1.00	1.00	0.99	2.01						0.99	1.99
6	Expected	1.00	1.00	3.00	1.00		1.00		2.00			2.00				2.00		2.00	2.00
	Actual	1.00	1.00	3.02	0.50 ^b		1.00		1.71			2.00				1.98		1.99	1.76 ^a
7	Expected	1.00		2.00	2.00	1.00	1.00		1.00	1.00		1.00		1.00	1.00	2.00		2.00	1.00
	Actual	1.00		1.98	1.07 ^b	1.00	1.00		0.99	1.01		0.99		1.00	1.00	2.00		1.99	1.00
8	Expected	1.00		3.00	1.00	2.00	1.00		2.00	1.00				2.00	1.00	1.00		1.00	1.00
	Actual	1.01		2.98	0.55 ^b	1.99	1.00		2.00	1.00				2.01	1.00	1.00		1.00	0.99
9	Expected	2.00		4.00	2.00	1.00	1.00		1.00	1.00	1.00			1.00	2.00	1.00	1.00		
	Actual	2.00		3.99	1.08 ^b	1.00	1.01		0.99	0.99	1.01			1.00	2.02	1.00	0.00 ^b		
10	Expected	1.00	2.00	2.00	2.00		1.00		1.00		1.00				1.00	1.00	1.00	2.00	2.00
	Actual	1.00	2.00	1.98	1.02 ^b		1.01		1.00		0.99				1.00	1.00	0.00 ^b	2.02	1.99
11	Expected	1.00	4.00		1.00		1.00	1.00			2.00				2.00	2.00		2.00	2.00
	Actual	1.00	3.99		0.57 ^b		1.00	1.00			1.99				2.02	2.00		1.99	1.99
12	Expected		6.00		1.00		1.00	1.00			1.00				2.00	2.00			
	Actual		6.04		0.58 ^b		1.00	1.00			1.00				2.01	1.97			

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

^bCys and/or Trp were completely or partially destroyed during hydrolysis

Date: 31 JUL 2009

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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