SUPPORTING INFECTIOUS DISEASE RESEARCH

# Peptide Array West Nile Virus Protein E

## Catalog No. NR-435

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#### Contributor:

**BEI Resources** 

#### **Product Description:**

The 67-peptide array spans the E protein of the NY99-flamingo382-99 strain of West Nile Virus (GenBank: AF196835).<sup>1</sup> Peptides are 15- to 19-mers, with 10 or 11 amino acid overlaps. Please see Table 1 for length and sequence of individual peptides.

## **Material Provided:**

Peptides are provided lyophilized at 1 mg per vial.

## Packaging/Storage:

Lyophilized peptides should be placed in a closed dry environment with dessicants and stored at -20°C or colder immediately upon arrival. A frost-free freezer should be avoided, since changes in moisture and temperature may affect peptide stability.

#### Solubility:

Solubility may vary based on the amino acid content of the individual peptide (see Table 2).

#### **Reconstitution:**

Lyophilized peptides should be warmed to room temperature for 1 hour prior to reconstitution. They should be dissolved at the highest possible concentration, and then diluted with water or buffer to the working concentration. Buffer should be added only after the peptide is completely in solution because salts may cause aggregation.

The most common dissolution process is 1 mg of peptide in 1 mL of sterile, distilled water. Peptides that are not soluble in water can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution. For cellbased assays, 0.5% DMSO is usually well-tolerated.

Sonication and/or the addition of small amounts of dilute (10%) aqueous acetic acid for basic peptides, aqueous ammonia for acidic peptides or acetonitrile may also help dissolution (see Table 2). These solvents may not be appropriate for certain applications, including cell-based assays.

#### Storage of Reconstituted Peptides:

The shelf life of peptides in solution is very limited, especially for sequences containing cysteine, methionine, tryptophan, asparagine, glutamine, and N-terminal glutamic acid. In general, peptides may be aliquoted and stored in solution for a few days at -20°C or colder. For long-term storage, peptides should be re-lyophilized and stored at -20°C or colder. If long-term storage in solution is unavoidable, peptide solutions should be buffered to pH 5–6, aliquoted and stored at -20°C or colder. Freeze-thaw cycles should be avoided.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Peptide Array West Nile Virus Protein E, NR-435."

#### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in</u> <u>Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see <u>www.cdc.gov/biosafety/publications/bmbl5/index.htm</u>.

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#### **References:**

 Lanciotti, R. S., et al. "Origin of the West Nile Virus Responsible for an Outbreak of Encephalitis in the Northeastern United States." <u>Science</u> 286 (1999): 2333– 2337. PubMed: 10600742.

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Peptide Length Sequence   1 18 FNCLGMSNRDFLEGVSGA   2 17 RDFLEGVSGATWVDLVL   3 18 SGATWVDLVLEGDSCVTI   4 18 VLEGDSCVTIMSKDKPTI   5 17 TIMSKDKPTIDVKMMNM   6 18 PTIDVKMMNMEAANLAEV   7 17 NMEAANLAEVRSYCYLA   8 18 AEVRSYCYLATVSDLSTK   9 16 LATVSDLSTKAACPTM   10 18 LSTKAACPTMGEAHNDKR   11 18 TMGEAHNDKRADPAFVCR   12 18 KRADPAFVCRQGVVDRGW   13 17 CRQGVVDRGWGNGCGLF   14 15 RGWGNGCGLFGKGSI   15 17 GCGLFGKGSIDTCAKFA   16 18 GSIDTCAKFACSTKAIGRT   19 18 IKYEVAIFVHGPTTVESH   20 17 VHGPTTVESHGNYSTQV   21 18 ESHGNYSTQVGATQAGRF   22 17 TQVGATQAGRFSITPAA   23 17 AGRFSITPA	Table 1				
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2118ESHGNYSTQVGATQAGRF2217TQVGATQAGRFSITPAA2317AGRFSITPAAPSYTLKL2418PAAPSYTLKLGEYGEVTV2518KLGEYGEVTVDCEPRSGI2618TVDCEPRSGIDTNAYYVM2718GIDTNAYYVMTVGTKTFL2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	-	-			
2217TQVGATQAGRFSITPAA2317AGRFSITPAAPSYTLKL2418PAAPSYTLKLGEYGEVTV2518KLGEYGEVTVDCEPRSGI2618TVDCEPRSGIDTNAYYVM2718GIDTNAYYVMTVGTKTFL2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
2317AGRFSITPAAPSYTLKL2418PAAPSYTLKLGEYGEVTV2518KLGEYGEVTVDCEPRSGI2618TVDCEPRSGIDTNAYYVM2718GIDTNAYYVMTVGTKTFL2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
24 18 PAAPSYTLKLGEYGEVTV   25 18 KLGEYGEVTVDCEPRSGI   26 18 TVDCEPRSGIDTNAYYVM   27 18 GIDTNAYYVMTVGTKTFL   28 17 VMTVGTKTFLVHREWFM   29 16 TFLVHREWFMDLNLPW   30 18 EWFMDLNLPWSSAGSTVW   31 17 PWSSAGSTVWRNRETLM   32 17 TVWRNRETLMEFEEPHA   33 18 TLMEFEEPHATKQSVIAL   34 18 HATKQSVIALGSQEGALH   35 17 ALGSQEGALHQALAGAI   36 19 ALHQALAGAIPVEFSSNTV   37 18 IPVEFSSNTVKLTSGHLK   38 18 TVKLTSGHLKCRVKMEKL   39 17 LKCRVKMEKLQLKGTTY   40 18 EKLQLKGTTYGVCSKAFK   41 16 TYGVCSKAFKFLGTPA   42 18 KAFKFLGTPADTGHGTVV   43 15 PADTGHGTVVLELQY   44 18 HGTVVLELQYTGTDGPCK   45 18 <td< td=""><td></td><td></td><td></td></td<>					
2518KLGEYGEVTVDCEPRSGI2618TVDCEPRSGIDTNAYYVM2718GIDTNAYYVMTVGTKTFL2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	-				
2618TVDCEPRSGIDTNAYYVM2718GIDTNAYYVMTVGTKTFL2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
2718GIDTNAYYVMTVGTKTFL2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
2817VMTVGTKTFLVHREWFM2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	-	-			
2916TFLVHREWFMDLNLPW3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI		-			
3018EWFMDLNLPWSSAGSTVW3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
3117PWSSAGSTVWRNRETLM3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI		-			
3217TVWRNRETLMEFEEPHA3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI		-			
3318TLMEFEEPHATKQSVIAL3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
3418HATKQSVIALGSQEGALH3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
3517ALGSQEGALHQALAGAI3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
3619ALHQALAGAIPVEFSSNTV3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
3718IPVEFSSNTVKLTSGHLK3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
3818TVKLTSGHLKCRVKMEKL3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI		-			
3917LKCRVKMEKLQLKGTTY4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	-	-			
4018EKLQLKGTTYGVCSKAFK4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
4116TYGVCSKAFKFLGTPA4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
4218KAFKFLGTPADTGHGTVV4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	-				
4315PADTGHGTVVLELQY4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
4418HGTVVLELQYTGTDGPCK4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
4518LQYTGTDGPCKVPISSVA4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
4618PCKVPISSVASLNDLTPV4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI					
4716VASLNDLTPVGRLVTV4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	45	18			
4817LTPVGRLVTVNPFVSVA4918VTVNPFVSVATANAKVLI	46	18	PCKVPISSVASLNDLTPV		
49 18 VTVNPFVSVATANAKVLI	47	16	VASLNDLTPVGRLVTV		
	48	17			
	49	18			
	50	16			

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	Table 1 (continued)					
Peptide	Length	Sequence				
51	17	KVLIELEPPFGDSYIVV				
52	17	PPFGDSYIVVGRGEQQI				
53	16	IVVGRGEQQINHHWHK				
54	18	EQQINHHWHKSGSSIGKA				
55	18	HKSGSSIGKAFTTTLKGA				
56	16	KAFTTTLKGAQRLAAL				
57	17	LKGAQRLAALGDTAWDF				
58	17	AALGDTAWDFGSVGGVF				
59	18	WDFGSVGGVFTSVGKAVH				
60	18	VFTSVGKAVHQVFGGAFR				
61	18	VHQVFGGAFRSLFGGMSW				
62	18	FRSLFGGMSWITQGLLGA				
63	17	SWITQGLLGALLLWMGI				
64	18	LGALLLWMGINARDRSIA				
65	16	GINARDRSIALTFLAV				
66	17	RSIALTFLAVGGVLLFL				
67	16	LAVGGVLLFLSVNVHA				

Table 2						
Peptide	Solubility	Solvent	Reconstitution pH, if required			
1	1 mg/mL	10% acetic acid in water				
2	1 mg/mL	Water				
3	1 mg/mL	5% ammonium hydroxide in water				
4	1 mg/mL	10% acetic acid in water				
5	1 mg/mL	Water				
6	1 mg/mL	Water				
7	1 mg/mL	Water				
8	1 mg/mL	Water				
9	1 mg/mL	Water				
10	1 mg/mL	Water				
11	1 mg/mL	Water				
12	1 mg/mL	Water				
13	1 mg/mL	Water				
14	1 mg/mL	Water				
15	1 mg/mL	Water				
16	1 mg/mL	Water				
17	1 mg/mL	Water				
18	1 mg/mL	Water				
19	1 mg/mL	Water				
20	1 mg/mL	Water				
21	1 mg/mL	Water				
22	1 mg/mL	Water				
23	1 mg/mL	Water				
24	1 mg/mL	Water				
25	1 mg/mL	Water				
26	1 mg/mL	Water				
27	1 mg/mL	Water				
28	1 mg/mL	Water				
29	1 mg/mL	Water				
30	1 mg/mL	Water				

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Table 2 (continued)					
Peptide	Solubility	Solvent	Reconstitution pH		
31	1 mg/mL	Water			
32	1 mg/mL	5% ammonium hydroxide in water			
33	1 mg/mL	Water			
34	1 mg/mL	Water			
35	1 mg/mL	Water			
36	1 mg/mL	Water			
37	1 mg/mL	Water			
38	1 mg/mL	Water			
39	1 mg/mL	Water			
40	1 mg/mL	Water			
41	1 mg/mL	Water			
42	1 mg/mL	Water			
43	1 mg/mL	Water			
44	1 mg/mL	Water			
45	1 mg/mL	Water			
46	1 mg/mL	Water			
47	1 mg/mL	Water			
48	1 mg/mL	Water			
49	1 mg/mL	Water			
50	1 mg/mL	Water			
51	1 mg/mL	Water			
52	1 mg/mL	Water			
53	1 mg/mL	Water			
54	1 mg/mL	Water			
55	1 mg/mL	Water			
56	1 mg/mL	Water			
57	1 mg/mL	Water			
58	1 mg/mL	0.01% ammonium hydroxide in water	pH 8.0		
59	1 mg/mL	Water			
60	1 mg/mL	Water			
61	1 mg/mL	Water			
62	1 mg/mL	Water			
63	1 mg/mL	Water			
64	1 mg/mL	Water			
65	1 mg/mL	Water			
66	1 mg/mL	Formic acid			
67	1 mg/mL	Water			