

Peptide Array, Dengue Virus Type 2 (DEN-2), New Guinea C (NGC), NS2b Protein

Catalog No. NR-2748

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Product Description: The 22-peptide array spans the NS2b protein of Dengue virus type 2 New Guinea C strain (GenPept: AAA42941). Peptides are 13- to 17-mers, with 11 to 14 amino acid overlaps.

Lot: PC0328

The following information applies to all peptides:

- Appearance
- Mass spectral analysis
- Counter Ion

White lyophilized powder
Correct MW by ESI/MS
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 22	02/21/2007	17	1 SWPLNEAIMAVGMVSIL 17	1830.20	1.23	90.2%	83.9%
2 of 22	02/26/2007	17	7 AIMAVGMVSILASSLLK 23	1703.47	1.84	82.6%	79.8%
3 of 22	12/04/2006	17	13 MVSILASSLLKNDIPMT 29	1832.33	0.86	83.5%	75.3%
4 of 22	11/22/2006	17	19 SSLLKNDIPMTGPLVAG 35	1712.47	0.39	93.3%	69.2%
5 of 22	11/30/2006	16	25 DIPMTGPLVAGLLTV 40	1553.40	1.17	93.8%	67.8%
6 of 22	03/14/2007	17	30 GPLVAGLLTVCYVLTG 46	1632.27	1.54	86.5%	54.9%
7 of 22	12/27/2006	17	36 GLLTVCYVLTGRSADLE 52	1809.73	0.71	83.1%	76.7%
8 of 22	11/27/2006	17	42 YVLTGRSADLELERAAD 58	1879.14	-0.31	97.5%	72.0%
9 of 22	11/21/2006	17	48 SADLELERAADV KWEDQ 64	1975.26	-1.02	91.6%	55.3%
10 of 22	12/11/2006	17	53 LERAADV KWEDQAEISG 69	1916.86	-0.8	82.8%	77.1%
11 of 22	12/19/2006	16	59 VKWEDQAEISGSSPIL 74	1758.33	-0.28	84.2%	61.9%
12 of 22	12/05/2006	16	63 DQAEISGSSPILSITI 78	1630.20	0.45	91.0%	87.3%
13 of 22	12/05/2006	17	68 SGSSPILSITISED GSM 84	1680.27	0.25	85.3%	76.1%
14 of 22	03/08/2007	17	74 LSITISED GSM SIKNEE 90	1852.13	-0.38	85.1%	76.7%
15 of 22	11/27/2006	17	79 SEDG SMSIKNEEEEQTL 95	1925.95	-1.48	80.9%	81.3%
16 of 22	02/09/2007	17	85 SIKNEEEEQTLTILIRT 101	2017.66	-0.66	82.2%	73.5%
17 of 22	02/14/2007	17	88 NEEEEQTLTILIRTGLL 104	1972.46	-0.22	80.3%	71.9%
18 of 22	03/01/2007	17	94 TLTILIRTGLLVISGLF 110	1830.73	1.84	Unknown ^c	64.4%
19 of 22	12/27/2006	17	100 RTGLLVISGLFPVSIPI 116	1782.53	1.49	89.7%	78.9%
20 of 22	12/13/2006	17	106 ISGLFPVSIPIAAAWY 122	1806.07	1.27	95.0%	76.7%
21 of 22	12/18/2006	17	112 VSIPITAAAWYLWEVKK 128	1975.60	0.54	84.2%	59.3%
22 of 22	11/15/2006	13	118 AAAYLWEVKKQR 130	1648.86	-0.69	95.3%	74.3%

^a% full-length
^bRemainder is salt and water
^cPeptide incompatible with HPLC conditions

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 22	Expected	2.00		1.00		1.00	1.00		2.00	2.00		2.00		1.00	2.00		1.00		2.00
	Actual	2.01		1.02		0.96	1.02		2.06	2.13		2.05		1.01	1.90		0.00 ^a		1.99
2 of 22	Expected	3.00					1.00		2.00	3.00	1.00	2.00			3.00				2.00
	Actual	2.99					1.02		2.02	2.99	1.04	1.95			3.10				2.03
3 of 22	Expected	1.00		2.00					2.00	3.00	1.00	2.00		1.00	3.00	1.00			1.00
	Actual	1.04		1.97					2.09	3.13	1.01	2.02		1.07	3.09	0.99			0.93
4 of 22	Expected	1.00		2.00			2.00		1.00	3.00	1.00	1.00		2.00	2.00	1.00			1.00
	Actual	1.04		2.07			2.00		0.99	2.97	0.98	1.06		2.02	2.09	1.01			0.98
5 of 22	Expected	1.00		1.00			3.00		1.00	3.00		1.00		2.00		2.00			2.00
	Actual	0.98		1.01			3.16		0.88	3.08		1.05		2.07		1.93			2.09
6 of 22	Expected	1.00			1.00		4.00			4.00				1.00		2.00		1.00	3.00
	Actual	0.94			0.00 ^b		4.02			4.14				0.98 ^b		1.96		1.06	3.01
7 of 22	Expected	1.00	1.00	1.00	1.00	1.00	2.00			4.00					1.00	2.00		1.00	2.00
	Actual	1.05	1.04	1.05	0.00 ^b	1.00	1.97			4.10					0.99	1.98		1.05	1.89
8 of 22	Expected	3.00	2.00	2.00		2.00	1.00			3.00					1.00	1.00		1.00	1.00
	Actual	2.98	1.99	2.10		1.86	1.04			3.02					1.05	1.09		1.02	0.98
9 of 22	Expected	3.00	1.00	3.00		4.00				2.00	1.00				1.00		1.00		1.00
	Actual	2.99	1.08	2.94		3.94				2.03	1.01				0.98		0.00 ^a		1.05
10 of 22	Expected	3.00	1.00	2.00		4.00	1.00		1.00	1.00	1.00				1.00		1.00		1.00
	Actual	2.83	1.02	1.89		3.83	1.06		1.00	1.02	1.05				1.05		0.00 ^a		1.04
11 of 22	Expected	1.00		1.00		3.00	1.00		2.00	1.00	1.00			1.00	3.00		1.00		1.00
	Actual	0.94		1.06		2.89	1.07		1.90	1.00	1.03			1.33	2.84		0.00 ^a		0.98
12 of 22	Expected	1.00		1.00		2.00	1.00		4.00	1.00				1.00	4.00	1.00			
	Actual	0.98		1.07		1.94	1.05		3.94	1.03				1.03	4.13	0.99			
13 of 22	Expected			1.00		1.00	2.00		3.00	1.00		1.00		1.00	6.00	1.00			
	Actual			1.01		1.00	2.09		2.89	1.07		1.01		1.04	5.89	1.02			
14 of 22	Expected			2.00		3.00	1.00		3.00	1.00	1.00	1.00			4.00	1.00			
	Actual			2.06		2.97	1.03		2.95	1.05	1.02	1.03			4.23	0.95			
15 of 22	Expected			2.00		6.00	1.00		1.00	1.00	1.00	1.00			3.00	1.00			
	Actual			1.98		6.01	1.04		0.97	1.01	1.03	1.02			3.04	1.07			
16 of 22	Expected		1.00	1.00		5.00			3.00	2.00	1.00				1.00	3.00			
	Actual		1.01	1.06		4.93			2.98	2.06	1.08				0.98	3.01			
17 of 22	Expected		1.00	1.00		5.00	1.00		2.00	4.00						3.00			
	Actual		1.01	1.02		4.97	1.03		2.01	4.05						2.92			
18 of 22	Expected		1.00				2.00		3.00	5.00			1.00		1.00	3.00			1.00
	Actual		1.05				2.13		2.68 ^c	5.07			1.04		1.07	3.02			1.00 ^c
19 of 22	Expected		1.00				2.00		3.00	3.00			1.00	2.00	2.00	1.00			2.00
	Actual		1.00				2.10		2.95	3.05			1.07	2.10	1.94	0.96			2.07
20 of 22	Expected	3.00					1.00		3.00	1.00			1.00	2.00	2.00	1.00	1.00	1.00	1.00
	Actual	2.81					1.01		3.04	1.05			1.04	2.02	2.01	1.01	0.00 ^a	1.05	1.02
21 of 22	Expected	3.00				1.00			2.00	1.00	2.00			1.00	1.00	1.00	2.00	1.00	2.00
	Actual	2.88				0.99			2.05	1.04	1.94			1.02	1.06	1.06	0.00 ^a	1.02	1.99
22 of 22	Expected	3.00	1.00			2.00				1.00	2.00						2.00	1.00	1.00
	Actual	2.85	1.00			1.98				1.04	1.95						0.00 ^a	1.05	0.99

^aTrp was completely destroyed during hydrolysis

^bCys was partially destroyed during hydrolysis and Cys degradation products co-elute with Pro

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

Date: 30 APR 2007

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