

Peptide Array, Dengue Virus Type 2, New Guinea C (NGC), PreM Protein

Catalog No. NR-506

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Product Description: The 21-peptide array spans the PreM protein of Dengue virus type 2, New Guinea C (GenPept: AAA42941). Peptides are 15- to 20-mers, with 10 amino acid overlaps.

Lot: 3898687

The following information applies to all peptides:

- Appearance White lyophilized powder
- Mass spectral analysis “Exhibits correct MW”
- Counter Ion Ammonium bicarbonate (Peptide #5)
Trifluoroacetate (all other Peptides)

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	11/17/2004	16	FHLTTRNGEPHMIVSR	1895.1	>99%	78.6%
2	11/17/2004	18	NGEPHMIVSRQEKGKSL	2023.3	97.4%	71.7%
3	11/19/2004	17	SRQEKGKSLLFKTEDGV	1922.0	92.5%	81.0%
4	1/7/2005	18	SLLFKTEDGVNMCTLMAM	2004.5	80.1%	67.9%
5	11/18/2004	15	GVNMCTLMAMDLGEL	1597.7	82.4%	86.6%
6	11/18/2004	18	TLMAMDLGELCEDTITYK	2047.3	91.4%	79.2%
7	11/11/2004	15	ELCEDTITYKCPFLK	1803.0	93.0%	79.5%
8	11/12/2004	17	TITYKCPFLKQNEPEDI	2039.3	93.0%	74.2%
9	11/19/2004	20	FLKQNEPEDIDWCNSTSTW	2416.6	79.4%	68.0%
10	12/9/2004	18	DCWCNSTSTWVTYGTCTT	2029.2	28.8%	85.4%
11	11/18/2004	18	TWVTYGTCTTTGEHRREK	2126.3	93.9%	74.5%
12	11/17/2004	18	TTTGEHRREKRSVALVPH	2074.3	93.0%	68.3%
13	11/24/2004	18	EKRSVALVPHVGMGLETR	1979.3	>99%	61.4%
14	11/12/2004	15	PHVGMGLETRTETWM	1745.0	93.0%	76.5%
15	12/9/2004	18	GLETRTETWMSSEGAWKH	2106.3	58.8%	81.5%
16	11/12/2004	18	WMSSEGAWKHAQRIETWI	2216.5	93.0%	74.0%
17	11/24/2004	18	KHAQRIETWILRHPGFTI	2203.5	91.9%	71.5%
18	11/16/2004	17	WILRHPGFTIMAILAY	1973.4	77.3%	79.8%
19	1/7/2005	17	FTIMAILAYTIGTTHF	1871.2	32.0%	79.5%
20	12/6/2004	18	LAYTIGTTHFQRALIFIL	2078.4	97.0%	81.3%
21	12/3/2004	19	HFQRALIFILLTAVAPSMT	2129.6	90.8%	79.4%

^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		2.00	1.00		1.00	1.00	2.00	1.00	1.00		1.00	1.00	1.00	1.00	2.00			1.00
	Actual		1.96	0.98		1.00	1.00	1.98	0.81	1.00		0.94	0.97	1.05	0.77	1.68			0.85
2	Expected		1.00	1.00		3.00	2.00	1.00	1.00	2.00	2.00	1.00		1.00	2.00				1.00
	Actual		0.95	0.99		2.81	2.00	0.99	0.80 ^a	2.02	1.98	0.92		1.04	1.51				0.82 ^a
3	Expected		1.00	1.00		3.00	2.00			2.00	3.00		1.00		2.00	1.00			1.00
	Actual		0.96	0.98		2.83	2.00			2.01	2.97		0.99		1.59	0.89			1.00
4	Expected	1.00		2.00	1.00	1.00	1.00			3.00	1.00	3.00	1.00		1.00	2.00			1.00
	Actual	1.00		2.06	0.00 ^b	1.03	1.02			3.18	1.02	3.00	1.03		0.79	1.81			0.99
5	Expected	1.00		2.00	1.00	1.00	2.00			3.00		3.00				1.00			1.00
	Actual	1.05		1.98	0.00 ^b	1.01	2.00			3.19		3.02				0.97			1.02
6	Expected	1.00		2.00	1.00	2.00	1.00		1.00	3.00	1.00	2.00				3.00			1.00
	Actual	1.03		2.03	0.00 ^b	1.98	1.00		0.97	3.14	1.04	1.79				2.76			1.02
7	Expected			1.00	2.00	2.00			1.00	2.00	2.00		1.00	1.00		2.00			1.00
	Actual			1.05	1.95	2.00			1.02	2.16	2.12		1.05	0.91		1.89			0.98
8	Expected			2.00	1.00	3.00			2.00	1.00	2.00		1.00	2.00		2.00			1.00
	Actual			2.04	0.84	3.00			1.93	1.02	1.99		1.02	2.07		1.81			0.84
9	Expected			4.00	2.00	3.00			1.00	1.00	1.00		1.00	1.00	2.00	2.00	2.00		
	Actual			3.90	0.00 ^b	3.00			0.98	0.96	1.00		0.98	1.11	1.47	1.74	0.00 ^b		
10	Expected			2.00	3.00		1.00								2.00	6.00	2.00	1.00	1.00
	Actual			1.75	0.00 ^b		1.00								1.54	4.57	0.00 ^b	0.92	0.94
11	Expected		2.00		1.00	2.00	2.00	1.00			1.00					6.00	1.00	1.00	1.00
	Actual		1.85		0.00 ^b	1.90	2.00	0.97			0.96					4.84	0.00 ^b	0.93	0.94
12	Expected	1.00	3.00			2.00	1.00	2.00		1.00	1.00			1.00	1.00	3.00			2.00
	Actual	1.03	2.95			1.99	1.00	2.01		1.02	1.02			0.93	0.81	2.50			2.04
13	Expected	1.00	2.00			2.00	2.00	1.00		2.00	1.00	1.00		1.00	1.00	1.00			3.00
	Actual	0.99	1.87			1.91	2.00	0.95		1.93	0.95	0.75		0.84	0.94	0.92			2.88
14	Expected		1.00			2.00	2.00	1.00		1.00		2.00		1.00		3.00	1.00		1.00
	Actual		0.94			2.03	2.00	0.98		0.98		1.64		0.80		2.72	0.00 ^b		0.92
15	Expected	1.00	1.00			3.00	2.00	1.00		1.00	1.00	1.00			2.00	3.00	2.00		
	Actual	1.00	0.74			2.52	1.67	1.01		0.67	1.01	0.97			1.67	2.13	0.00 ^b		
16	Expected	2.00	1.00			3.00	1.00	1.00	2.00		1.00	1.00			2.00	1.00	3.00		
	Actual	2.00	0.83			2.93	0.97	1.00	1.91		0.96	0.84			1.52	0.87	0.00 ^b		
17	Expected	1.00	2.00			2.00	1.00	2.00	3.00	1.00	1.00		1.00	1.00		2.00	1.00		
	Actual	1.00	1.98			1.95	1.02	2.07	2.93	1.02	1.00		0.97	0.92		1.85	0.00 ^b		
18	Expected	3.00	1.00				1.00	1.00	3.00	2.00		1.00	1.00	1.00		1.00	1.00	1.00	
	Actual	3.00	0.96				0.97	1.04	2.82	1.99		0.89	1.02	0.97		0.97	0.00 ^b	0.96	
19	Expected	3.00					1.00	1.00	3.00	1.00		1.00	2.00			4.00			1.00
	Actual	3.00					0.94	0.92	2.69	1.04		0.73	1.84			3.30			0.93
20	Expected	2.00	1.00			1.00	1.00	1.00	3.00	3.00			2.00			3.00			1.00
	Actual	1.76	0.95			0.96	1.00	1.03	1.63 ^a	1.87 ^a			1.33 ^a			2.67			0.86
21	Expected	3.00	1.00			1.00		1.00	2.00	3.00		1.00	2.00	1.00	1.00	2.00			1.00
	Actual	3.00	1.04			1.08		1.09	0.56 ^a	1.18 ^a		0.93	1.31 ^a	1.12	0.98	1.92			1.08

^aIle-Val, Leu-Ile-Phe-Ile-Leu and/or Leu-Ile-Phe-Ile-Leu-Leu bonds were only partially destroyed during hydrolysis.

^bCys and/or Trp was completely destroyed during hydrolysis.

Date: 22 MAY 2007

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