

Peptide Array, Influenza Virus A/Wyoming/03/2003 (H3N2) Neuraminidase Protein Diverse Peptides

Catalog No. NR-9477

This reagent is the tangible property of the U.S. Government.

Product Description: NR-9477 contains 12 peptides that represent regions of amino acid sequence diversity in the neuraminidase (NA) protein of influenza virus A/Wyoming/03/2003 (H3N2) (GenPept: AAT08001) compared to the NA of influenza virus A/Wisconsin/67/2005 (H3N2) (GenPept: ABP52004). Peptides are 16- or 17-mers, with 11 or 13 amino acid overlaps.

Lot: P98415L

The following information applies to all peptides:

- Appearance
 - Mass spectral analysis
 - Counter ion
- Lyophilized powder
Correct MW by MALDI-TOF
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
34 of 82	12/11/2007	17	186 GKAWLHVCVTGDDENAT 202	1816	99	73.70
35 of 82	1/14/2008	17	192 VCVTGDDENATASFIYN 208	1819	100	83.22
36 of 82	12/17/2007	16	198 DENATASFIYNGRLVD 213	1785	97	85.00
38 of 82	12/11/2007	17	208 NGRLVDSIVSWSKILR 224	1971	96	59.60
39 of 82	12/18/2007	16	214 SIVSWSKILRTQESE 229	1891	92	77.00
40 of 82	1/24/2008	17	219 SKKILRTQESECVCING 235	1908	61	82.31
49 of 82	12/19/2007	17	271 SAQHVEECSCYPRYPGV 287	1925	98	80.81
50 of 82	12/19/2007	16	275 VEECSCYPRYPGVRCV 290	1860	100	67.20
51 of 82	1/14/2008	17	280 CYPRYPGVRCVCRDNWK 296	2115	99	89.40
75 of 82	2/7/2008	17	416 SCINRCFYVELIRGRKQ 432	2085	77	86.59
76 of 82	1/23/2008	17	422 FYVELIRGRKQETEV LW 438	2167	94	80.53
77 of 82	1/22/2008	17	428 RGRKQETEV LWTSNSIV 444	2003	70	77.57

^a% full-length
^bRemainder is salt & 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)
34 of 82	Expected	2.00		3.00	1.00	1.00	2.00	1.00		1.00	1.00					2.00	1.00		2.00
	Actual	2.03		3.07	0.00 ^a	0.96	2.04	1.03		1.01	1.03					1.99	0.00 ^b		1.92
35 of 82	Expected	2.00		4.00	1.00	1.00	1.00		1.00				1.00		1.00	2.00		1.00	2.00
	Actual	2.01		3.85	0.00 ^a	1.00	1.02		1.00				1.03		0.89	1.62		1.02	1.95
36 of 82	Expected	2.00	1.00	4.00		1.00	1.00		1.00	1.00			1.00		1.00	1.00		1.00	1.00
	Actual	1.90	1.02	4.01		0.99	1.03		1.00	1.05			1.02		0.92	0.92		1.03	1.04
38 of 82	Expected		2.00	2.00			1.00		2.00	2.00	2.00				3.00		1.00		2.00
	Actual		2.07	2.00			1.06		1.95	2.10	2.13				2.86		0.00 ^b		1.89
39 of 82	Expected		1.00			3.00			2.00	1.00	2.00				4.00	1.00	1.00		1.00
	Actual		1.05			2.94			1.99	1.03	2.09				3.70	0.90	0.00 ^b		1.03
40 of 82	Expected		1.00	1.00	2.00	3.00	1.00		2.00	1.00	2.00				2.00	1.00			1.00
	Actual		1.02	1.02	0.00 ^a	3.03	1.03		1.93	0.99	1.88				1.96	0.96			1.06
49 of 82	Expected	1.00	1.00		2.00	3.00	1.00	1.00						2.00	2.00				2.00
	Actual	1.02	1.05		0.00 ^a	3.00	1.05	0.98						1.90	2.08				2.10
50 of 82	Expected		2.00		3.00	2.00	1.00							2.00	1.00				2.00
	Actual		2.03		0.00 ^a	1.87	1.04							1.94	0.91				2.04
51 of 82	Expected		3.00	2.00	3.00		1.00				1.00			2.00			1.00	2.00	2.00
	Actual		3.07	1.97	0.00 ^a		1.02				1.06			2.05			0.00 ^b	2.00	1.76
75 of 82	Expected		3.00	1.00	2.00	2.00	1.00		2.00	1.00	1.00		1.00		1.00				1.00
	Actual		3.07	1.04	0.00 ^a	2.11	1.09		1.71	1.05	1.03		1.01		1.06				0.94
76 of 82	Expected		2.00			4.00	1.00		1.00	2.00	1.00		1.00			1.00	1.00	1.00	2.00
	Actual		1.96			4.06	1.07		0.97	2.18	1.03		0.90			0.98	0.00 ^b	0.90	2.14
77 of 82	Expected		2.00	1.00		3.00	1.00		1.00	1.00	1.00				2.00	2.00	1.00		2.00
	Actual		1.84	1.08		2.70	1.06		0.98	1.06	1.01				1.94	2.03	0.00 ^b		2.03

^aCys was totally destroyed during hydrolysis

^bTrp was totally destroyed during hydrolysis

Date: 29 JUL 2014

Signature:



Title:

Technical Manager, BEI Authentication or designee

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