

TABLE 2. The surface sites calculated from GetArea (S16) using HA of H3N2 virus as the template (PDB ID 2VIU).

Residue	Ratio(%) ^a	Residue	Ratio(%) ^a	Residue	Ratio(%) ^a	Residue	Ratio(%) ^a
9	100	91	93.6	160	92	226	23.9
10	24.8	92	70.0	162	33	236	25.6
20	27.7	94	60.6	163	79.2	238	64.4
21	99.2	95	25.6	165	75.7	239	40.9
22	100	96	50.9	167	69.8	240	56.4
24	34.7	101	63.4	169	51.4	244	33.8
25	64.6	103	41.5	171	100	246	25
27	28.7	104	70.6	172	50.2	259	23.8
29	45.6	105	34.2	173	100	261	47.4
30	89.2	107	56.8	187	57.7	262	100
31	45.0	110	31.3	188	92.2	263	64.6
32	100.0	111	21.3	189	100	264	39.7
33	79.7	114	25.7	192	53.7	271	63.1
35	27.8	119	25.1	193	60.9	273	78.7
38	73.1	121	58.0	194	26.3	275	52.3
40	32.5	122	83.2	196	28.9	276	100
45	40.8	124	91.5	197	27.1	277	30.7
46	100	126	100	198	100	278	93.2
48	52.0	128	100	199	83.8	280	47.7
49	36.6	129	36.4	201	35.1	285	52
50	63.4	131	85.1	207	79.3	289	49.9
53	33.7	132	31.3	208	66.1	290	23
54	59.1	133	83.9	209	49	291	70
55	37.6	135	27.2	210	87.6	292	24.2
57	55.8	137	88.3	211	23.2	299	27
60	29.8	140	60.2	212	30.9	310	65.1
62	54.7	141	39.3	214	63.4	312	94.8
63	30.6	142	93.1	216	81.8	313	55.2
65	21.9	143	100.0	218	38.2	315	37.3
77	33.6	144	39.2	219	97.2	321	30.4
78	81.6	145	51.6	220	22.9	324	41
80	39.1	155	29.6	221	100	325	23.2
81	63.2	156	35.5	222	98.1	326	73.2
82	26.2	157	48.3	223	38.6	327	100
83	40.4	158	75.8	224	27.5	328	100
85	21.0	159	100	225	33.4		

^aRatio(%)”denotes the ratio of side-chain surface area to "random coil" value per residue, and a value of 20% was used as the cutoff for a residue on the HA surface area.