Peptide Array, Human Coronavirus NL63 (HCoV-NL63) Spike (S) Protein

Catalog No. NR-3012

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Product Description:

The 226-peptide array spans the spike (S) protein of human coronavirus NL63 (HCoV-NL63) (GenPept: Q6Q1S2).[1,2] Peptides are 14- to 17-mers, with 11 to 13 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 -20ºC 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). Peptides can almost always be dissolved in 100% DMSO.

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 or 1 mL of 100% DMSO. The DMSO can be slowly diluted to a lower concentration with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution. For cell-based assays, 0.5% DMSO in medium 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 -20ºC or colder. For long-term storage, peptides should be re-lyophilized and stored at -20ºC or colder. If long-term storage in solution is unavoidable, peptide solutions should be buffered to pH 5–6, aliquoted and stored at -20ºC or colder. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Peptide Array, Human Coronavirus NL63 (HCoV-NL63) Spike (S) Protein, NR-3012."

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. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. van der Hoek, L., et al. "Identification of a New Human Coronavirus." Nat. Med. 10 (2004): 368–373. PubMed: 15034574. GenPept: Q6Q1S2.
2 Gallagher, T. M. and M. J. Buchmeier. "Coronavirus Spike Proteins in Viral Entry and Pathogenesis." Virology 279 (2001): 371-374. PubMed: 11162792.

Table 1

Peptide	Length	Sequence
1 of 226	17	1 MKLFLILLVLPLASCFF 17
2 of 226	17	7 LLVLPLASCFFTCNSNA 23
3 of 226	17	13 ASCFFTCNSNANLSMLQ 29
4 of 226	17	19 CNSNANLSMLQLGVPDN 35
5 of 226	17	25 LSMLQLGVPDNSSTIVT 41
6 of 226	17	31 GVPDNSSTIVTGLLPTH 47
7 of 226	17	37 STIVTGLLPTHWFCANQ 53
8 of 226	17	43 LLPTHWFCANQSTSVYS 59
9 of 226	17	49 FCANQSTSVYSANGFFY 65
10 of 226	17	55 TSVYSANGFFYIDVGNH 71
11 of 226	17	61 NGFFYIDVGNHRSAFAL 77
12 of 226	17	67 DVGNHRSAFALHTGYYD 83
13 of 226	17	73 SAFALHTGYYDANQYYI 89
14 of 226	17	79 TGYYDANQYYIYVTNEI 95
15 of 226	17	85 NQYYIYVTNEIGLNASV 101
16 of 226	17	91 VTNEIGLNASVTLKICK 107
17 of 226	17	97 LNASVTLKICKFSRNTT 113
18 of 226	17	103 LKICKFSRNTTFDFLSN 119
19 of 226	17	109 SRNTTFDFLSNASSSFD 125
20 of 226	17	115 DFLSNASSSFDCIVNLL 131
21 of 226	17	121 SSSFDCIVNLLFTEQLG 137
22 of 226	17	127 IVNLLFTEQLGAPLGIT 143
23 of 226	17	133 TEQLGAPLGITISGETV 149
24 of 226	17	139 PLGITISGETVRLHLYN 155
25 of 226	17	145 SGETVRLHLYNVTRTFY 161

Table 1		
Peptide	**Length**	**Sequence**
26 of 226	17	151 LHLYNVTRTFYVPAAYK 167
27 of 226	17	157 TRTFYVPAAYKLTKLSV 173
28 of 226	17	163 PAAYKLTKLSVKCYFNY 179
29 of 226	17	169 TKLSVKCYFNYSCVFSV 185
30 of 226	17	175 CYFNYSCVFSVVNATVT 191
31 of 226	17	181 CVFSVVNATVTVNVTTH 197
32 of 226	17	187 NATVTVNVTTHNGRVVN 203
33 of 226	17	193 NVTTHNGRVVNYTVCDD 209
34 of 226	17	199 GRVVNYTVCDDCNGYTD 215
35 of 226	17	205 TVCDDCNGYTDNIFSVQ 221
36 of 226	17	211 NGYTDNIFSVQQDGRIP 227
37 of 226	17	217 IFSVQQDGRIPNGFPFN 233
38 of 226	17	223 DGRIPNGFPFNNWFLLT 239
39 of 226	17	229 GFPFNNWFLLTNGSTLV 245
40 of 226	17	235 WFLLTNGSTLVDGVSRL 251
41 of 226	17	241 GSTLVDGVSRLYQPLRL 257
42 of 226	17	247 GVSRLYQPLRLTCLWPV 263
43 of 226	17	252 YQPLRLTCLWPVPGLKS 268
44 of 226	17	258 TCLWPVPGLKSSTGFVY 274
45 of 226	17	264 PGLKSSTGFVYFNATGS 280
46 of 226	17	270 TGFVYFNATGSDVNCNG 286
47 of 226	17	276 NATGSDVNCNGYQHNSV 292
48 of 226	17	282 VNCNGYQHNSVVDVMRY 298
49 of 226	17	287 YQHNSVVDVMRYNLNFS 303
50 of 226	17	293 VDVMRYNLNFSANSLDN 309
51 of 226	17	299 NLNFSANSLDNLKSGVI 315
52 of 226	17	305 NSLDNLKSGVIVFKTLQ 321
53 of 226	17	311 KSGVIVFKTLQYDVLFY 327
54 of 226	17	317 FKTLQYDVLFYCSNSSS 333
55 of 226	17	323 DVLFYCSNSSSGVLDTT 339
56 of 226	17	329 SNSSSGVLDTTIPFGPS 345
57 of 226	17	335 VLDTTIPFGPSSQPYYC 351
58 of 226	17	341 PFGPSSQPYYCFINSTI 357
59 of 226	17	346 SQPYYCFINSTINTTHV 362
60 of 226	17	352 FINSTINTTHVSTFVGI 368
61 of 226	17	358 NTTHVSTFVGILPPTVR 374
62 of 226	17	364 TFVGILPPTVREIVVAR 380
63 of 226	17	370 PPTVREIVVARTGQFYI 386
64 of 226	17	376 IVVARTGQFYINGFKYF 392
65 of 226	17	382 GQFYINGFKYFDLGFIE 398

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Peptide	**Length**	**Sequence**
66 of 226	17	388 GFKYFDLGFIEAVNFNV 404
67 of 226	17	394 LGFIEAVNFNVTTASAT 410
68 of 226	17	400 VNFNVTTASATDFWTVA 416
69 of 226	17	406 TASATDFWTVAFATFVD 422
70 of 226	17	412 FWTVAFATFVDVLVNVS 428
71 of 226	17	418 ATFVDVLVNVSATNIQN 434
72 of 226	17	424 LVNVSATNIQNLLYCDS 440
73 of 226	17	430 TNIQNLLYCDSPFEKLQ 446
74 of 226	17	436 LYCDSPFEKLQCEHLQF 452
75 of 226	17	442 FEKLQCEHLQFGLQDGF 458
76 of 226	17	448 EHLQFGLQDGFYSANFL 464
77 of 226	17	454 LQDGFYSANFLDDNVLP 470
78 of 226	17	460 SANFLDDNVLPETYVAL 476
79 of 226	17	466 DNVLPETYVALPIYYQH 482
80 of 226	17	472 TYVALPIYYQHTDINFT 488
81 of 226	17	478 IYYQHTDINFTATASFG 494
82 of 226	17	484 DINFTATASFGGSCYVC 500
83 of 226	17	490 TASFGGSCYVCKPHQVN 506
84 of 226	17	496 SCYVCKPHQVNISLNGN 512
85 of 226	17	502 PHQVNISLNGNTSVCVR 518
86 of 226	17	508 SLNGNTSVCVRTSHFSI 524
87 of 226	17	514 SVCVRTSHFSIRYIYNR 530
88 of 226	17	520 SHFSIRYIYNRVKSGSP 536
89 of 226	17	526 YIYNRVKSGSPGDSSWH 542
90 of 226	17	532 KSGSPGDSSWHIYLKSG 548
91 of 226	17	538 DSSWHIYLKSGTCPFSF 554
92 of 226	17	544 YLKSGTCPFSFSKLNNF 560
93 of 226	17	550 CPFSFSKLNNFQKFKTI 566
94 of 226	17	556 KLNNFQKFKTICFSTVE 572
95 of 226	17	562 KFKTICFSTVEVPGSCN 578
96 of 226	17	568 FSTVEVPGSCNFPLEAT 584
97 of 226	17	574 PGSCNFPLEATWHYTSY 590
98 of 226	17	580 PLEATWHYTSYTIVGAL 596
99 of 226	17	586 HYTSYTIVGALYVTWSE 602
100 of 226	17	592 IVGALYVTWSEGNSITG 608
101 of 226	17	598 VTWSEGNSITGVPYPVS 614
102 of 226	17	604 NSITGVPYPVSGIREFS 620
103 of 226	17	610 PYPVSGIREFSNLVLNN 626
104 of 226	17	616 IREFSNLVLNNCTKYNI 632
105 of 226	17	622 LVLNNCTKYNIYDYVGT 638

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106 of 226	17	628 TKYNIYDYVGTGIIRSS 644
107 of 226	17	634 DYVGTGIIRSSNQSLAG 650
108 of 226	17	640 IIRSSNQSLAGGITYVS 656
109 of 226	17	645 NQSLAGGITYVSNSGNL 661
110 of 226	17	651 GITYVSNSGNLLGFKNV 667
111 of 226	17	657 NSGNLLGFKNVSTGNIF 673
112 of 226	17	663 GFKNVSTGNIFIVTPCN 679
113 of 226	17	669 TGNIFIVTPCNQPDQVA 685
114 of 226	17	675 VTPCNQPDQVAVYQQSI 691
115 of 226	17	681 PDQVAVYQQSIIGAMTA 697
116 of 226	17	687 YQQSIIGAMTAVNESRY 703
117 of 226	17	693 GAMTAVNESRYGLQNLL 709
118 of 226	17	699 NESRYGLQNLLQLPNFY 715
119 of 226	17	705 LQNLLQLPNFYYVSNGG 721
120 of 226	17	711 LPNFYYVSNGGNNCTTA 727
121 of 226	17	717 VSNGGNNCTTAVMTYSN 733
122 of 226	17	723 NCTTAVMTYSNFGICAD 739
123 of 226	17	729 MTYSNFGICADGSLIPV 745
124 of 226	17	735 GICADGSLIPVRPRNSS 751
125 of 226	17	741 SLIPVRPRNSSDNGISA 757
126 of 226	17	747 PRNSSDNGISAIITANL 763
127 of 226	17	753 NGISAIITANLSIPSNW 769
128 of 226	17	759 ITANLSIPSNWTTSVQV 775
129 of 226	17	765 IPSNWTTSVQVEYLQIT 781
130 of 226	17	771 TSVQVEYLQITSTPIVV 787
131 of 226	17	777 YLQITSTPIVVDCATYV 793
132 of 226	17	783 TPIVVDCATYVCNGNPR 799
133 of 226	17	789 CATYVCNGNPRCKNLLK 805
134 of 226	17	795 NGNPRCKNLLKQYTSAC 811
135 of 226	17	801 KNLLKQYTSACKTIEDA 817
136 of 226	17	807 YTSACKTIEDALRLSAH 823
137 of 226	17	813 TIEDALRLSAHLETNDV 829
138 of 226	17	819 RLSAHLETNDVSSMLTF 835
139 of 226	17	825 ETNDVSSMLTFDSNAFS 841
140 of 226	17	831 SMLTFDSNAFSLANVTS 847
141 of 226	17	837 SNAFSLANVTSFGDYNL 853
142 of 226	17	843 ANVTSFGDYNLSSVLPQ 859
143 of 226	17	849 GDYNLSSVLPQRNIRSS 865
144 of 226	17	855 SVLPQRNIRSSRIAGRS 871
145 of 226	17	861 NIRSSRIAGRSALEDLL 877

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Peptide	**Length**	**Sequence**
146 of 226	17	867 IAGRSALEDLLFSKVVT 883
147 of 226	17	873 LEDLLFSKVVTSGLGTV 889
148 of 226	17	879 SKVVTSGLGTVDVDYKS 895
149 of 226	17	885 GLGTVDVDYKSCTKGLS 901
150 of 226	17	891 VDYKSCTKGLSIADLAC 907
151 of 226	17	897 TKGLSIADLACAQYYNG 913
152 of 226	17	903 ADLACAQYYNGIMVLPG 919
153 of 226	17	908 AQYYNGIMVLPGVADAE 924
154 of 226	17	914 IMVLPGVADAERMAMYT 930
155 of 226	17	920 VADAERMAMYTGSLIGG 936
156 of 226	17	926 MAMYTGSLIGGMVLGGL 942
157 of 226	17	932 SLIGGMVLGGLTSAAAI 948
158 of 226	17	938 VLGGLTSAAAIPFSLAL 954
159 of 226	17	944 SAAAIPFSLALQARLNY 960
160 of 226	17	950 FSLALQARLNYVALQTD 966
161 of 226	17	956 ARLNYVALQTDVLQENQ 972
162 of 226	17	962 ALQTDVLQENQKILAAS 978
163 of 226	17	968 LQENQKILAASFNKAIN 984
164 of 226	17	974 ILAASFNKAINNIVASF 990
165 of 226	17	980 NKAINNIVASFSSVNDA 996
166 of 226	17	986 IVASFSSVNDAITQTAE 1002
167 of 226	17	992 SVNDAITQTAEAIHTVT 1008
168 of 226	17	998 TQTAEAIHTVTIALNKI 1014
169 of 226	17	1004 IHTVTIALNKIQDVVNQ 1020
170 of 226	17	1010 ALNKIQDVVNQQGSALN 1026
171 of 226	17	1016 DVVNQQGSALNHLTSQL 1032
172 of 226	17	1022 GSALNHLTSQLRHNFQA 1038
173 of 226	17	1028 LTSQLRHNFQAISNSIQ 1044
174 of 226	17	1034 HNFQAISNSIQAIYDRL 1050
175 of 226	17	1040 SNSIQAIYDRLDSIQAD 1056
176 of 226	17	1046 IYDRLDSIQADQQVDRL 1062
177 of 226	17	1052 SIQADQQVDRLITGRLA 1068
178 of 226	17	1056 DQQVDRLITGRLAALNA 1072
179 of 226	17	1062 LITGRLAALNAFVSQVL 1078
180 of 226	17	1068 AALNAFVSQVLNKYTEV 1084
181 of 226	17	1074 VSQVLNKYTEVRGSRRL 1090
182 of 226	17	1080 KYTEVRGSRRLAQQKIN 1096
183 of 226	17	1086 GSRRLAQQKINECVKSQ 1102
184 of 226	17	1091 AQQKINECVKSQSNRYG 1107
185 of 226	17	1097 ECVKSQSNRYGFCGNGT 1113

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Peptide	**Length**	**Sequence**
186 of 226	17	1103 SNRYGFCGNGTHIFSIV 1119
187 of 226	17	1109 CGNGTHIFSIVNSAPDG 1125
188 of 226	17	1115 IFSIVNSAPDGLLFLHT 1131
189 of 226	17	1121 SAPDGLLFLHTVLLPTD 1137
190 of 226	17	1127 LFLHTVLLPTDYKNVKA 1143
191 of 226	17	1133 LLPTDYKNVKAWSGICV 1149
192 of 226	17	1139 KNVKAWSGICVDGIYGY 1155
193 of 226	17	1145 SGICVDGIYGYVLRQPN 1161
194 of 226	17	1151 GIYGYVLRQPNLVLYSD 1167
195 of 226	17	1157 LRQPNLVLYSDNGVFRV 1173
196 of 226	17	1163 VLYSDNGVFRVTSRVMF 1179
197 of 226	17	1169 GVFRVTSRVMFQPRLPV 1185
198 of 226	17	1175 SRVMFQPRLPVLSDFVQ 1191
199 of 226	17	1181 PRLPVLSDFVQIYNCNV 1197
200 of 226	17	1187 SDFVQIYNCNVTFVNIS 1203
201 of 226	17	1193 YNCNVTFVNISRVELHT 1209
202 of 226	17	1199 FVNISRVELHTVIPDYV 1215
203 of 226	17	1205 VELHTVIPDYVDVNKTL 1221
204 of 226	17	1211 IPDYVDVNKTLQEFAQN 1227
205 of 226	17	1217 VNKTLQEFAQNLPKYVK 1233
206 of 226	17	1223 EFAQNLPKYVKPNFDLT 1239
207 of 226	17	1229 PKYVKPNFDLTPFNLTY 1245
208 of 226	17	1235 NFDLTPFNLTYLNLSSE 1251
209 of 226	17	1241 FNLTYLNLSSELKQLEA 1257
210 of 226	17	1247 NLSSELKQLEAKTASLF 1263
211 of 226	17	1253 KQLEAKTASLFQTTVEL 1269
212 of 226	17	1259 TASLFQTTVELQGLIDQ 1275
213 of 226	17	1265 TTVELQGLIDQINSTYV 1281
214 of 226	17	1271 GLIDQINSTYVDLKLLN 1287
215 of 226	17	1277 NSTYVDLKLLNRFENYI 1293
216 of 226	17	1283 LKLLNRFENYIKWPWWV 1299
217 of 226	17	1289 FENYIKWPWWVWLIISV 1305
218 of 226	17	1295 WPWWVWLIISVVFVVLL 1311
219 of 226	17	1301 LIISVVFVVLLSLLVFC 1317
220 of 226	17	1307 FVVLLSLLVFCCLSTGC 1323
221 of 226	17	1313 LLVFCCLSTGCCGCCNC 1329
222 of 226	17	1319 LSTGCCGCCNCLTSSMR 1335
223 of 226	17	1325 GCCNCLTSSMRGCCDCG 1341
224 of 226	17	1331 TSSMRGCCDCGSTKLPY 1347
225 of 226	17	1337 CCDCGSTKLPYYEFEKV 1353
226 of 226	14	1343 TKLPYYEFEKVHVQ 1356

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Table 2			
Peptide	**Solubility**	**Solvent**	**Reconstitution pH, if required**
1 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
2 of 226	1 mg/mL	20% acetonitrile in water	pH 6
3 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
4 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
5 of 226	1 mg/mL	Water	
6 of 226	1 mg/mL	Water	
7 of 226	1 mg/mL	Water	
8 of 226	1 mg/mL	Water	
9 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
10 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
11 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
12 of 226	1 mg/mL	Water	
13 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
14 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
15 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
16 of 226	1 mg/mL	Water	
17 of 226	1 mg/mL	Water	
18 of 226	1 mg/mL	Water	
19 of 226	1 mg/mL	Water	
20 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
21 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
22 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
23 of 226	1 mg/mL	Water	
24 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
25 of 226	1 mg/mL	Water	
26 of 226	1 mg/mL	Water	
27 of 226	1 mg/mL	Water	
28 of 226	1 mg/mL	Water	
29 of 226	1 mg/mL	Water	
30 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
31 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
32 of 226	1 mg/mL	Water	
33 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
34 of 226	1 mg/mL	Water	
35 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
36 of 226	1 mg/mL	Water	
37 of 226	1 mg/mL	Water	
38 of 226	1 mg/mL	Water	
39 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
40 of 226	1 mg/mL	Water	

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Table 2			
Peptide	**Solubility**	**Solvent**	**Reconstitution pH, if required**
41 of 226	1 mg/mL	Water	
42 of 226	1 mg/mL	Water	
43 of 226	1 mg/mL	Water	
44 of 226	1 mg/mL	Water	
45 of 226	1 mg/mL	Water	
46 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
47 of 226	1 mg/mL	Water	
48 of 226	1 mg/mL	Water	
49 of 226	1 mg/mL	Water	
50 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
51 of 226	1 mg/mL	Water	
52 of 226	1 mg/mL	Water	
53 of 226	1 mg/mL	20% acetonitrile in water	pH 6
54 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
55 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
56 of 226	1 mg/mL	Water	
57 of 226	1 mg/mL	Water	
58 of 226	1 mg/mL	Water	
59 of 226	1 mg/mL	Water	
60 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
61 of 226	1 mg/mL	Water	
62 of 226	1 mg/mL	Water	
63 of 226	1 mg/mL	Water	
64 of 226	1 mg/mL	Water	
65 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
66 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
67 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
68 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
69 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
70 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
71 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
72 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
73 of 226	1 mg/mL	Water	
74 of 226	1 mg/mL	Water	
75 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
76 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
77 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
78 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
79 of 226	1 mg/mL	Water	
80 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11

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Table 2			
Peptide	**Solubility**	**Solvent**	**Reconstitution pH, if required**
81 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
82 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
83 of 226	1 mg/mL	10% acetonitrile in water	pH 6
84 of 226	1 mg/mL	10% acetonitrile in water	pH 6
85 of 226	1 mg/mL	Water	pH 6
86 of 226	1 mg/mL	10% acetonitrile in water	pH 6
87 of 226	1 mg/mL	10% acetonitrile in water	pH 6
88 of 226	1 mg/mL	10% acetonitrile in water	pH 6
89 of 226	1 mg/mL	10% acetonitrile in water	pH 6
90 of 226	1 mg/mL	10% acetonitrile in water	pH 6
91 of 226	1 mg/mL	10% acetonitrile in water	pH 6
92 of 226	1 mg/mL	10% acetonitrile in water	pH 6
93 of 226	1 mg/mL	10% acetonitrile in water	pH 6
94 of 226	1 mg/mL	10% acetonitrile in water	pH 6
95 of 226	1 mg/mL	Water	pH 6
96 of 226	1 mg/mL	10% acetonitrile in water	pH 6
97 of 226	1 mg/mL	10% acetonitrile in water	pH 6
98 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
99 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
100 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
101 of 226	1 mg/mL	10% acetonitrile in water	pH 6
102 of 226	1 mg/mL	10% acetonitrile in water	pH 6
103 of 226	1 mg/mL	10% acetonitrile in water	pH 6
104 of 226	1 mg/mL	10% acetonitrile in water	pH 6
105 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
106 of 226	1 mg/mL	10% acetonitrile in water	pH 6
107 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
108 of 226	1 mg/mL	10% acetonitrile in water	pH 6
109 of 226	1 mg/mL	Water	
110 of 226	1 mg/mL	10% acetonitrile in water	pH 6
111 of 226	1 mg/mL	Water	pH 6
112 of 226	1 mg/mL	18% acetonitrile, 2% acetic acid in water	pH 3
113 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
114 of 226	1 mg/mL	10% acetonitrile in water	pH 6
115 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
116 of 226	1 mg/mL	10% acetonitrile in water	pH 6
117 of 226	1 mg/mL	10% acetonitrile in water	pH 6
118 of 226	1 mg/mL	10% acetonitrile in water	pH 6
119 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
120 of 226	1 mg/mL	Water	

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Table 2			
Peptide	**Solubility**	**Solvent**	**Reconstitution pH, if required**
121 of 226	1 mg/mL	Water	
122 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
123 of 226	1 mg/mL	10% acetonitrile in water	pH 6
124 of 226	1 mg/mL	10% acetonitrile in water	pH 6
125 of 226	1 mg/mL	10% acetonitrile in water	pH 6
126 of 226	1 mg/mL	Water	
127 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
128 of 226	1 mg/mL	Water	
129 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
130 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
131 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
132 of 226	1 mg/mL	10% acetonitrile in water	pH 6
133 of 226	1 mg/mL	10% acetonitrile in water	pH 6
134 of 226	1 mg/mL	10% acetonitrile in water	pH 6
135 of 226	1 mg/mL	10% acetonitrile in water	pH 6
136 of 226	1 mg/mL	10% acetonitrile in water	pH 6
137 of 226	1 mg/mL	10% acetonitrile in water	pH 6
138 of 226	1 mg/mL	10% acetonitrile in water	pH 6
139 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
140 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
141 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
142 of 226	1 mg/mL	Water	pH 6
143 of 226	1 mg/mL	10% acetonitrile in water	pH 6
144 of 226	1 mg/mL	10% acetonitrile in water	pH 6
145 of 226	1 mg/mL	10% acetonitrile in water	pH 6
146 of 226	1 mg/mL	10% acetonitrile in water	pH 6
147 of 226	1 mg/mL	10% acetonitrile in water	pH 6
148 of 226	1 mg/mL	10% acetonitrile in water	pH 6
149 of 226	1 mg/mL	10% acetonitrile in water	pH 6
150 of 226	1 mg/mL	10% acetonitrile in water	pH 6
151 of 226	1 mg/mL	Water	pH 6
152 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
153 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
154 of 226	1 mg/mL	10% acetonitrile in water	pH 6
155 of 226	1 mg/mL	10% acetonitrile in water	pH 6
156 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
157 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
158 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
159 of 226	1 mg/mL	10% acetonitrile in water	pH 6
160 of 226	1 mg/mL	10% acetonitrile in water	pH 6

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Table 2			
Peptide	**Solubility**	**Solvent**	**Reconstitution pH, if required**
161 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
162 of 226	1 mg/mL	10% acetonitrile in water	pH 6
163 of 226	1 mg/mL	10% acetonitrile in water	pH 6
164 of 226	1 mg/mL	10% acetonitrile, 2% acetic acid in water	pH 3
165 of 226	1 mg/mL	10% acetonitrile, 2% acetic acid in water	pH 3
166 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
167 of 226	1 mg/mL	10% acetonitrile, 0.01% trifluoroacetic acid in water	pH 7 (with ammonium hydroxide)
168 of 226	1 mg/mL	10% acetonitrile in water	pH 6
169 of 226	1 mg/mL	10% acetonitrile, 8% acetic acid in water	pH 3
170 of 226	1 mg/mL	10% acetonitrile in water	pH 6
171 of 226	1 mg/mL	50% formic acid and 50% water	pH 1
172 of 226	1 mg/mL	10% acetonitrile in water	pH 6
173 of 226	1 mg/mL	10% acetonitrile in water	pH 6
174 of 226	1 mg/mL	20% acetonitrile in water	pH 6
175 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
176 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
177 of 226	1 mg/mL	10% acetonitrile in water	pH 6
178 of 226	1 mg/mL	10% acetonitrile in water	pH 6
179 of 226	1 mg/mL	Water	
180 of 226	1 mg/mL	10% acetonitrile, 4% formic acid in water	pH 2
181 of 226	1 mg/mL	10% acetonitrile in water	pH 6
182 of 226	1 mg/mL	10% acetonitrile in water	pH 6
183 of 226	1 mg/mL	10% acetonitrile in water	pH 6
184 of 226	1 mg/mL	10% acetonitrile in water	pH 6
185 of 226	1 mg/mL	10% acetonitrile in water	pH 6
186 of 226	1 mg/mL	10% acetonitrile in water	pH 6
187 of 226	1 mg/mL	10% acetonitrile in water	pH 6
188 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
189 of 226	1 mg/mL	10% acetonitrile in water	pH 6
190 of 226	1 mg/mL	10% acetonitrile in water	pH 6
191 of 226	1 mg/mL	10% acetonitrile in water	pH 6
192 of 226	1 mg/mL	10% acetonitrile in water	pH 6
193 of 226	1 mg/mL	10% acetonitrile in water	pH 6
194 of 226	1 mg/mL	10% acetonitrile in water	pH 6
195 of 226	1 mg/mL	10% acetonitrile in water	pH 6
196 of 226	1 mg/mL	20% acetonitrile in water	pH 6
197 of 226	1 mg/mL	10% acetonitrile in water	pH 6
198 of 226	1 mg/mL	10% acetonitrile in water	pH 6
199 of 226	1 mg/mL	Water	pH 6
200 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11

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Table 2			
Peptide	**Solubility**	**Solvent**	**Reconstitution pH, if required**
201 of 226	1 mg/mL	10% acetonitrile in water	pH 6
202 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
203 of 226	1 mg/mL	10% acetonitrile in water	pH 6
204 of 226	1 mg/mL	10% acetonitrile in water	pH 6
205 of 226	1 mg/mL	10% acetonitrile in water	pH 6
206 of 226	1 mg/mL	10% acetonitrile in water	pH 6
207 of 226	1 mg/mL	10% acetonitrile in water	pH 6
208 of 226	1 mg/mL	0.004% trifluoroacetic acid in water	pH 7 (with ammonium hydroxide)
209 of 226	1 mg/mL	20% acetonitrile in water	pH 7 (with ammonium hydroxide)
210 of 226	1 mg/mL	10% acetonitrile in water	pH 6
211 of 226	1 mg/mL	10% acetonitrile in water	pH 6
212 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
213 of 226	1 mg/mL	Water	pH 7 (with ammonium hydroxide)
214 of 226	1 mg/mL	10% acetonitrile in water	pH 7 (with ammonium hydroxide)
215 of 226	1 mg/mL	10% acetonitrile in water	pH 6
216 of 226	1 mg/mL	10% acetonitrile in water	pH 6
217 of 226	1 mg/mL	20% acetonitrile in water	pH 6
218 of 226	1 mg/mL	Water	
219 of 226	1 mg/mL	50% formic acid and 50% acetonitrile	pH 1
220 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
221 of 226	1 mg/mL	5% ammonium hydroxide in water	pH 11
222 of 226	1 mg/mL	10% acetonitrile, 4% acetic acid in water	pH 3
223 of 226	1 mg/mL	10% acetonitrile in water	pH 6
224 of 226	1 mg/mL	10% acetonitrile in water	pH 6
225 of 226	1 mg/mL	10% acetonitrile in water	pH 6
226 of 226	1 mg/mL	10% acetonitrile in water	pH 6

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