

Peptide Array, Human Coronavirus 229E (HCoV-229E) Spike (S) Protein

Catalog No. NR-3010

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

For research use only. Not for human use.

Contributor:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Product Description:

The 195-peptide array spans the spike (S) protein of human coronavirus 229E (HCoV-229E) (GenPept: NP_073551).¹ Peptides are 17-mers, with 11 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 desiccants and stored at -20°C 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 -20°C or colder. For long-term storage, peptides should be re-lyophilized and stored at -20°C or colder. If long-term storage in solution is unavoidable, peptide solutions should be buffered to pH 5–6, aliquoted and stored at -20°C 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 229E (HCoV-229E) Spike (S) Protein, NR-3010.”

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/bmb15/bmb15toc.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI

Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

References:

1. Thiel, V., et al. "Infectious RNA Transcribed In Vitro from a cDNA Copy of the Human Coronavirus Genome Cloned in Vaccinia Virus." *J. Gen. Virol.* 82 (2001): 1273-1281. PubMed: 11369870. GenPept: NP_073551.

ATCC® is a trademark of the American Type Culture Collection.

Table 1		
Peptide	Length	Sequence
1 of 195	17	1 MFVLLVAYALLHIAGCQ 17
2 of 195	17	7 AYALLHIAGCQTTNGLN 23
3 of 195	17	13 IAGCQTTNGLNTSYSVC 29
4 of 195	17	19 TNGLNTSYSVCNGCVGY 35
5 of 195	17	25 SYSVCNGCVGYSENVFA 41
6 of 195	17	31 GCVGYSENVFAVESGGY 47
7 of 195	17	37 ENVFAVESGGYIPSDFA 53
8 of 195	17	43 ESGGYIPSDFAFNNWFL 59
9 of 195	17	49 PSDFAFNNWFLNTSS 65
10 of 195	17	55 NNWFLNTSSVVDGVV 71
11 of 195	17	61 TNTSSVVDGVVRSFQPL 77
12 of 195	17	67 VDGVVRSFQPLLNCLW 83
13 of 195	17	73 SFQPLLNCLWSVGLR 89
14 of 195	17	79 LNCLWSVGLRFTTGFV 95
15 of 195	17	85 VSGLRFTTGFVYFNGTG 101
16 of 195	17	91 TTGFVYFNGTGRGDCKG 107
17 of 195	17	97 FNGTGRGDCKGFSSDVL 113
18 of 195	17	103 GDCKGFSSDVLSDVIRY 119
19 of 195	17	109 SSDVLSDVIRYNLNFE 125
20 of 195	17	115 DVIRYNLNFEENLRRGT 131
21 of 195	17	121 LNFEENLRRGTILFKTS 137
22 of 195	17	127 LRRGTILFKTSYGVVVF 143
23 of 195	17	133 LFKTSYGVVVFYCTNNT 149
24 of 195	17	139 GVVVFYCTNNTLVSGDA 155
25 of 195	17	145 CTNNTLVSGDAHIPFGT 161
26 of 195	17	151 VSGDAHIPFGTVLGNFY 167
27 of 195	17	157 IPFGTVLGNFYCFVNTT 173
28 of 195	17	163 LGNFYCFVNTTIGNETT 179
29 of 195	17	169 FVNTTIGNETTSAFVGA 185
30 of 195	17	175 GNETTSAFVGALPKTVR 191
31 of 195	17	181 AFVGALPKTVREFVISR 197
32 of 195	17	187 PKTVREFVISRTGHFYI 203
33 of 195	17	193 FVISRTGHFYINGRYF 209
34 of 195	17	199 GHFYINGRYFRTLGNVE 215
35 of 195	17	205 GYRYFTLGNVEAVNFNV 221

Table 1		
Peptide	Length	Sequence
36 of 195	17	211 LGNVEAVNFNVTTAETT 227
37 of 195	17	217 VNFNVTTAETTFDFCTVA 233
38 of 195	17	223 TAETTFDFCTVALASYAD 239
39 of 195	17	229 FCTVALASYADVLVNVS 245
40 of 195	17	235 ASYADVLVNVSQTSIAN 251
41 of 195	17	241 LVNVSQTSIANIIYCNS 257
42 of 195	17	247 TSIANIIYCNSVINRLR 263
43 of 195	17	253 IYCNSVINRLRCDQLSF 269
44 of 195	17	259 INRLRCDQLSFDVDPDGF 275
45 of 195	17	265 DQLSFDVDPDGFYSTSPI 281
46 of 195	17	271 VPDGFYSTSPIQSVELP 287
47 of 195	17	277 STSPIQSVELPVSIVSL 293
48 of 195	17	283 SVELPVSIVSLPVYHKH 299
49 of 195	17	289 SIVSLPVYHKHTFIVLY 305
50 of 195	17	295 VYHKHTFIVLYVDFKPQ 311
51 of 195	17	301 FIVLYVDFKPQSGGGKC 317
52 of 195	17	307 DFKPQSGGGKCFNCYPA 323
53 of 195	17	313 GGGKCFNCYPAGVNITL 329
54 of 195	17	319 NCYPAGVNITLANFNET 335
55 of 195	17	325 VNITLANFNETKGPLCV 341
56 of 195	17	331 NFNETKGPLCVDTSHFT 347
57 of 195	17	337 GPLCVDTSHFTTKYVAV 353
58 of 195	17	343 TSHFTTKYVAVYANVGR 359
59 of 195	17	349 KYVAVYANVGRWSASIN 365
60 of 195	17	355 ANVGRWSASINTGNCPF 371
61 of 195	17	361 SASINTGNCPFSGKVN 377
62 of 195	17	367 GNCPFSGKVNNFVKFG 383
63 of 195	17	373 FGKVNNFVKFGSVCFSL 389
64 of 195	17	379 FVKFGSVCFSLKDIPGG 395
65 of 195	17	385 VCFSLKDIPGGCAMPV 401
66 of 195	17	391 DIPGGCAMPVANWAYS 407
67 of 195	17	397 AMPIVANWAYSKYTYTIG 413
68 of 195	17	403 NWAYSKYTYTIGSLYVSW 419
69 of 195	17	409 YYTIGSLYVSWSDGDI 425
70 of 195	17	415 LYVSWSDGDGITGVPQP 431
71 of 195	17	421 DGDGITGVPQVEGVSS 437
72 of 195	17	427 GVPQVEGVSSFMNVTL 443
73 of 195	17	433 EGVSSFMNVTLDKCTKY 449
74 of 195	17	439 MNVTLDKCTKYNIYDVS 455
75 of 195	17	445 KCTKYNIYDVSGVGIR 461
76 of 195	17	451 IYDVSGVGIRVSNDF 467
77 of 195	17	457 VGIRVSNDFLNGITY 473
78 of 195	17	463 SNDNFLNGITYTSTSGN 479
79 of 195	17	469 NGITYTSTSGNLLGFKD 485
80 of 195	17	475 STSGNLLGFKDVTKGTI 491
81 of 195	17	481 LGFKDVTKGTIYSITPC 497
82 of 195	17	487 TKGTIYSITPCNPPDQL 503
83 of 195	17	493 SITPCNPPDQLVVYQQA 509
84 of 195	17	499 PPDQLVVYQQA VVGAML 515
85 of 195	17	505 VYQQA VVGAMLSNF 521

Table 1		
Peptide	Length	Sequence
86 of 195	17	511 VGAMLSENFYSYGFNSV 527
87 of 195	17	517 ENFYSYGFNSVVELPKF 533
88 of 195	17	523 GFNSVVELPKFFYASNG 539
89 of 195	17	529 ELPKFFYASNGTYNCTD 545
90 of 195	17	535 YASNGTYNCTDAVLTY 551
91 of 195	17	541 YNCTDAVLTYSSFGVCA 557
92 of 195	17	547 VLYSSFGVCADGSIIA 563
93 of 195	17	553 FGVCADGSIIAVQPRNV 569
94 of 195	17	559 GSIIAVQPRNVSYDSVS 575
95 of 195	17	564 VQPRNVSYDSVSAIVTA 580
96 of 195	17	570 SYDSVSAIVTANLSIPS 586
97 of 195	17	576 AIVTANLSIPSNWTT 592
98 of 195	17	582 LSIPSNWTTSVQVEYLQ 598
99 of 195	17	588 WTTSVQVEYLQITSTPI 604
100 of 195	17	594 VEYLQITSTPIVDCST 610
101 of 195	17	600 TSTPIVDCSTYVCNGN 616
102 of 195	17	606 VDCSTYVCNGNRCVEL 622
103 of 195	17	612 VCNGNRCVELLKQYTS 628
104 of 195	17	618 RCVLLKQYTSACKTIE 634
105 of 195	17	624 KQYTSACKTIEDALRNS 640
106 of 195	17	630 CKTIEDALRNSARLESA 646
107 of 195	17	636 ALRNSARLESADVSEML 652
108 of 195	17	642 RLESADVSEMILTFDKKA 658
109 of 195	17	648 VSEMILTFDKKAFTLANV 664
110 of 195	17	654 FDKKAFTLANVSSFGDY 670
111 of 195	17	660 LANVSSFGDYNLSSVI 676
112 of 195	17	666 SFGDYNLSSVIPSLPTS 682
113 of 195	17	672 LSSVIPSLPTSGSRVAG 688
114 of 195	17	678 SLPTSGSRVAGRSAIED 694
115 of 195	17	684 SRVAGRSAIEDILFSLK 700
116 of 195	17	690 SAIEDILFSLKLVTSGLG 706
117 of 195	17	696 LFSKLVTSGLGTVDADY 712
118 of 195	17	702 TSGLGTVDADYKCKTKG 718
119 of 195	17	708 VDADYKCKTKGLSIADL 724
120 of 195	17	714 KCKTKGLSIADLACAQYY 730
121 of 195	17	720 SIADLACAQYYNGIMVL 736
122 of 195	17	726 CAQYYNGIMVLPGVADA 742
123 of 195	17	732 GIMVLPGVADAERMAMY 748
124 of 195	17	738 GVADAERMAMYTGLIG 754
125 of 195	17	744 RMAMYTGLIGGIALGG 760
126 of 195	17	750 GLIGGIALGGLTSAVS 766
127 of 195	17	756 IALGGLTSAVSIPFLA 772
128 of 195	17	762 TSAVSIPFLAIQARLN 778
129 of 195	17	768 PFLAIQARLNYVALQT 784
130 of 195	17	773 IQARLNYVALQTDVLQE 789
131 of 195	17	779 YVALQTDVLQENQKILA 795
132 of 195	17	785 DVLQENQKILAASFNKA 801
133 of 195	17	790 NQKILAASFNKAMTNIV 806
134 of 195	17	796 ASFNKAMTNIVDAFTGV 812
135 of 195	17	802 MTNIVDAFTGVNDAITQ 818

Table 1		
Peptide	Length	Sequence
136 of 195	17	808 AFTGVNDAITQTSQALQ 824
137 of 195	17	814 DAITQTSQALQTVATAL 830
138 of 195	17	820 SQALQTVATALNKIQDV 836
139 of 195	17	826 VATALNKIQDVVNQQGN 842
140 of 195	17	832 KIQDVVNQQGNSLNHLT 848
141 of 195	17	838 NQQGNSLNHLTSQLRQN 854
142 of 195	17	844 LNHLTSQLRQNFQAISS 860
143 of 195	17	849 SQLRQNFQAISSSIQAI 865
144 of 195	17	855 FQAISSSIQAIYDRLDT 871
145 of 195	17	861 SIQAIYDRLDTIQADQQ 877
146 of 195	17	867 DRLDTIQADQQVDRLIT 883
147 of 195	17	872 IQADQQVDRLITGRLAA 888
148 of 195	17	878 VDRLITGRLAALNVFVS 894
149 of 195	17	884 GRLAALNVFVSHLTKY 900
150 of 195	17	890 NVFVSHLTKYTEVRAS 906
151 of 195	17	896 TLTKYTEVRASRQLAQQ 912
152 of 195	17	902 EVRASRQLAQQKVNECV 918
153 of 195	17	907 RQLAQQKVNECVKSQSK 923
154 of 195	17	913 KVNECVKSQSKRYGFCG 929
155 of 195	17	919 KSQSKRYGFCGNGTHIF 935
156 of 195	17	925 YGFCGNGTHIFSIVNAA 941
157 of 195	17	931 GTHIFSIVNAAPEGLVF 947
158 of 195	17	937 IVNAAPEGLVFLHTVLL 953
159 of 195	17	943 EGLVFLHTVLLPTQYKD 959
160 of 195	17	949 HTVLLPTQYKDVEAWSG 965
161 of 195	17	955 TQYKDVEAWSGLCVDGT 971
162 of 195	17	961 EAWSGLCVDGTNGYVLR 977
163 of 195	17	967 CVDGTNGYVLRQPNLAL 983
164 of 195	17	973 GYVLRQPNLALYKEGNY 989
165 of 195	17	979 PNLALYKEGNYRITSR 995
166 of 195	17	985 KEGNYRITSRIMFEPR 1001
167 of 195	17	991 RITSRIMFEPRIPTMAD 1007
168 of 195	17	997 MFEPRIPTMADFVQIEN 1013
169 of 195	17	1003 PTMADFVQIENCNVTFV 1019
170 of 195	17	1009 VQIENCNVTFVNISRSE 1025
171 of 195	17	1015 NVTFVNISRSELQTI 1031
172 of 195	17	1021 ISRSELQTIPEYIDVN 1037
173 of 195	17	1026 LQTIPEYIDVNKTLQE 1042
174 of 195	17	1032 EYIDVNKTLQELSYKLP 1048
175 of 195	17	1038 KTLQELSYKLPNYTVPD 1054
176 of 195	17	1044 SYKLPNYTVPDLVVEQY 1060
177 of 195	17	1050 YTVPDVVEQYNQTILN 1066
178 of 195	17	1056 VVEQYNQTILNLTSEIS 1072
179 of 195	17	1061 NQTILNLTSEISTLENK 1077
180 of 195	17	1067 LTSEISTLENKSAELNY 1083
181 of 195	17	1073 TLENKSAELNYTVQKLQ 1089
182 of 195	17	1079 AELNYTVQKLQTLIDNI 1095
183 of 195	17	1085 VQKLQTLIDNINSTLVD 1101
184 of 195	17	1091 LIDNINSTLVDLKWLNR 1107
185 of 195	17	1097 STLVDLKWLNRVETYIK 1113

Table 1		
Peptide	Length	Sequence
186 of 195	17	1103 KWLNRVETYIKWPWWVW 1119
187 of 195	17	1109 ETYIKWPWWVWLCISVV 1125
188 of 195	17	1115 PWWVWLCISVVLIFVVS 1131
189 of 195	17	1121 CISVVLIFVVSMLLLCC 1137
190 of 195	17	1127 IFVVSMLLLCCCSTGCC 1143
191 of 195	17	1133 LLLCCCSTGCCGFFSCF 1149
192 of 195	17	1139 STGCCGFFSCFASSIRG 1155
193 of 195	17	1145 FFSCFASSIRGCCESTK 1161
194 of 195	17	1151 SSIRGCCESTKLPYYDV 1167
195 of 195	17	1157 CESTKLPYYDVEKIHQ 1173

Table 2		
Peptide	Solubility	Solvent
1 of 195	1 mg/mL	DMSO
2 of 195	1 mg/mL	DMSO
3 of 195	1 mg/mL	DMSO
4 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
5 of 195	1 mg/mL	DMSO
6 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
7 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
8 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
9 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
10 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
11 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
12 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
13 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
14 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
15 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
16 of 195	1 mg/mL	PBS pH 7.2
17 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
18 of 195	1 mg/mL	PBS pH 7.2
19 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
20 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
21 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
22 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
23 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
24 of 195	1 mg/mL	DMSO
25 of 195	1 mg/mL	PBS pH 7.2
26 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
27 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
28 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
29 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
30 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO

Table 2		
Peptide	Solubility	Solvent
31 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
32 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
33 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
34 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
35 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
36 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
37 of 195	1 mg/mL	DMSO
38 of 195	1 mg/mL	DMSO
39 of 195	1 mg/mL	DMSO
40 of 195	1 mg/mL	DMSO
41 of 195	1 mg/mL	DMSO
42 of 195	1 mg/mL	DMSO
43 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
44 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
45 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
46 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
47 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
48 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
49 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
50 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
51 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
52 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
53 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
54 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
55 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
56 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
57 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
58 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
59 of 195	1 mg/mL	DMSO
60 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
61 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
62 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
63 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
64 of 195	1 mg/mL	DMSO
65 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
66 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
67 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
68 of 195	1 mg/mL	DMSO
69 of 195	1 mg/mL	DMSO
70 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
71 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
72 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
73 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
74 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
75 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
76 of 195	1 mg/mL	DMSO
77 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
78 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO

Table 2		
Peptide	Solubility	Solvent
79 of 195	1 mg/mL	DMSO
80 of 195	1 mg/mL	PBS pH 7.2
81 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
82 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
83 of 195	1 mg/mL	PBS pH 7.2
84 of 195	1 mg/mL	DMSO
85 of 195	1 mg/mL	DMSO
86 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
87 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
88 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
89 of 195	1 mg/mL	DMSO
90 of 195	1 mg/mL	DMSO
91 of 195	1 mg/mL	DMSO
92 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
93 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
94 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
95 of 195	1 mg/mL	100% DMSO
96 of 195	1 mg/mL	100% DMSO
97 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
98 of 195	1 mg/mL	DMSO
99 of 195	1 mg/mL	DMSO
100 of 195	1 mg/mL	DMSO
101 of 195	1 mg/mL	DMSO
102 of 195	1 mg/mL	DMSO
103 of 195	1 mg/mL	DMSO
104 of 195	1 mg/mL	DMSO
105 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
106 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
107 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
108 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
109 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
110 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
111 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
112 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
113 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
114 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
115 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
116 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
117 of 195	1 mg/mL	PBS pH 7.2
118 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
119 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
120 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
121 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
122 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
123 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
124 of 195	1 mg/mL	PBS pH 7.2
125 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
126 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO

Table 2		
Peptide	Solubility	Solvent
127 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
128 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
129 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
130 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
131 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
132 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
133 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
134 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
135 of 195	1 mg/mL	DMSO
136 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
137 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
138 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
139 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
140 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
141 of 195	1 mg/mL	DMSO
142 of 195	1 mg/mL	DMSO
143 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
144 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
145 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
146 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
147 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
148 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
149 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
150 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
151 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
152 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
153 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
154 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
155 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
156 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
157 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
158 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
159 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
160 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
161 of 195	1 mg/mL	PBS pH 7.2
162 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
163 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
164 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
165 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
166 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
167 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
168 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
169 of 195	1 mg/mL	DMSO
170 of 195	1 mg/mL	DMSO
171 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
172 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
173 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO

Table 2		
Peptide	Solubility	Solvent
174 of 195	1 mg/mL	DMSO
175 of 195	1 mg/mL	DMSO
176 of 195	1 mg/mL	DMSO
177 of 195	1 mg/mL	DMSO
178 of 195	1 mg/mL	DMSO
179 of 195	1 mg/mL	DMSO
180 of 195	1 mg/mL	DMSO
181 of 195	1 mg/mL	DMSO
182 of 195	1 mg/mL	DMSO
183 of 195	1 mg/mL	DMSO
184 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
185 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
186 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
187 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
188 of 195	1 mg/mL	DMSO
189 of 195	1 mg/mL	DMSO
190 of 195	1 mg/mL	DMSO
191 of 195	1 mg/mL	DMSO
192 of 195	1 mg/mL	DMSO
193 of 195	1 mg/mL	DMSO
194 of 195	1 mg/mL	50% PBS pH 7.2 / 50% DMSO
195 of 195	1 mg/mL	DMSO