Product Information Sheet for NR-4204

Peptide Array, Dengue Virus Type 3 (DEN-3), Philippines/H87/1956, NS5 Protein

Catalog No. NR-4204

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Product Description:

The 156-peptide array spans the NS5 protein of Dengue virus type 3, Philippines/H87/1956 (GenPept: AAA99437).[1] Peptides are 13- 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 -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).

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. Peptides that are not soluble in water can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted 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, Dengue Virus Type 3 (DEN-3), Philippines/H87/1956, NS5 Protein, NR-4204."

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. Osatomi, K. and H. Sumiyoshi. "Complete Nucleotide Sequence of Dengue Type 3 Virus Genome RNA." Virology 176 (1990): 643–647. PubMed: 2345967.
2. Modis, Y., S. Ogata, D. Clements, and S. C. Harrison. "Variable Surface Epitopes in the Crystal Structure of Dengue Virus Type 3 Envelope Glycoprotein." J. Virol. 79 (2005): 1223–1231. PubMed: 15613349.

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Table 1

Peptide	Length	Sequence
1 of 156	17	1 GTGSQGETLGEKWKKKL 17
2 of 156	17	6 GETLGEKWKKKLNQLSR 22
3 of 156	17	12 KWKKKLNQLSRKEFDLY 28
4 of 156	17	18 NQLSRKEFDLYKKSGIT 34
5 of 156	17	23 KEFDLYKKSGITEVDRT 39
6 of 156	17	29 KKSGITEVDRTEAKEGL 45
7 of 156	17	34 TEVDRTEAKEGLKRGEI 50
8 of 156	17	39 TEAKEGLKRGEITHHAV 55
9 of 156	17	45 LKRGEITHHAVSRGSAK 61
10 of 156	17	51 THHAVSRGSAKLQWFVE 67
11 of 156	16	57 RGSAKLQWFVERNMVI 72
12 of 156	17	62 LQWFVERNMVIPEGRVI 78
13 of 156	17	68 RNMVIPEGRVIDLGCGR 84
14 of 156	17	73 PEGRVIDLGCGRGGWSY 89
15 of 156	17	79 DLGCGRGGWSYYCAGLK 95
16 of 156	17	85 GGWSYYCAGLKKVTEVR 101
17 of 156	17	91 CAGLKKVTEVRGYTKGG 107
18 of 156	16	97 VTEVRGYTKGGPGHEE 112
19 of 156	17	102 GYTKGGPGHEEPVPMST 118
20 of 156	17	108 PGHEEPVPMSTYGWNIV 124
21 of 156	17	114 VPMSTYGWNIVKLMSGK 130
22 of 156	16	120 GWNIVKLMSGKDVFYL 135
23 of 156	17	125 KLMSGKDVFYLPPEKCD 141
24 of 156	17	131 DVFYLPPEKCDTLLCDI 147
25 of 156	17	137 PEKCDTLLCDIGESSPS 153
26 of 156	16	143 LLCDIGESSPSPTVEE 158
27 of 156	17	148 GESSPSPTVEESRTIRV 164
28 of 156	16	154 PTVEESRTIRVLKMVE 169
29 of 156	17	159 SRTIRVLKMVEPWLKNN 175
30 of 156	17	165 LKMVEPWLKNNQFCIKV 181

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Table 1		
Peptide	**Length**	**Sequence**
31 of 156	16	171 WLKNNQFCIKVLNPYM 186
32 of 156	17	175 NQFCIKVLNPYMPTVIE 191
33 of 156	17	181 VLNPYMPTVIEHLERLQ 197
34 of 156	17	187 PTVIEHLERLQRKHGGM 203
35 of 156	17	193 LERLQRKHGGMLVRNPL 209
36 of 156	17	199 KHGGMLVRNPLSRNSTH 215
37 of 156	16	205 VRNPLSRNSTHEMYWI 220
38 of 156	17	210 SRNSTHEMYWISNGTGN 226
39 of 156	17	215 HEMYWISNGTGNIVSSV 231
40 of 156	17	221 SNGTGNIVSSVNMVSRL 237
41 of 156	17	227 IVSSVNMVSRLLLNRFT 243
42 of 156	16	233 MVSRLLLNRFTMTHRR 248
43 of 156	17	238 LLNRFTMTHRRPTIEKD 254
44 of 156	17	244 MTHRRPTIEKDVDLGAG 260
45 of 156	17	250 TIEKDVDLGAGTRHVNA 266
46 of 156	17	256 DLGAGTRHVNAEPETPN 272
47 of 156	17	262 RHVNAEPETPNMDVIGE 278
48 of 156	17	268 PETPNMDVIGERIKRIK 284
49 of 156	17	274 DVIGERIKRIKEEHSST 290
50 of 156	17	280 IKRIKEEHSSTWHYDDE 296
51 of 156	17	284 KEEHSSTWHYDDENPYK 300
52 of 156	17	290 TWHYDDENPYKTWAYHG 306
53 of 156	17	295 DENPYKTWAYHGSYEVK 311
54 of 156	16	301 TWAYHGSYEVKATGSA 316
55 of 156	17	306 GSYEVKATGSASSMING 322
56 of 156	17	312 ATGSASSMINGVVKLLT 328
57 of 156	17	318 SMINGVVKLLTKPWDVV 334
58 of 156	17	324 VKLLTKPWDVVPMVTQM 340
59 of 156	17	330 PWDVVPMVTQMAMTDTT 346
60 of 156	17	336 MVTQMAMTDTTPFGQQR 352
61 of 156	17	342 MTDTTPFGQQRVFKEKV 358
62 of 156	17	348 FGQQRVFKEKVDTRTPR 364
63 of 156	17	354 FKEKVDTRTPRPMPGTR 370
64 of 156	17	360 TRTPRPMPGTRKVMEIT 376
65 of 156	17	366 MPGTRKVMEITAEWLWR 382
66 of 156	17	372 VMEITAEWLWRTLGRNK 388
67 of 156	16	377 AEWLWRTLGRNKRPRL 392
68 of 156	17	382 RTLGRNKRPRLCTREEF 398
69 of 156	17	388 KRPRLCTREEFTKKVRT 404
70 of 156	17	394 TREEFTKKVRTNAAMGA 410
71 of 156	17	400 KKVRTNAAMGAVFTEEN 416
72 of 156	17	406 AAMGAVFTEENQWDSAR 422
73 of 156	17	412 FTEENQWDSARAAVEDE 428
74 of 156	17	418 WDSARAAVEDEEFWKLV 434

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Table 1		
Peptide	**Length**	**Sequence**
75 of 156	17	424 AVEDEEFWKLVDRERELL 440
76 of 156	16	430 FWKLVDRERELHKLGK 445
77 of 156	17	435 DRERELHKLGKCGSCVY 451
78 of 156	17	441 HKLGKCGSCVYNMMGKR 457
79 of 156	17	447 GSCVYNMMGKREKKLGE 463
80 of 156	17	453 MMGKREKKLGEFGKAKG 469
81 of 156	17	459 KKLGEFGKAKGSRAIWY 475
82 of 156	17	465 GKAKGSRAIWYMWLGAR 481
83 of 156	17	471 RAIWYMWLGARYLEFEA 487
84 of 156	17	477 WLGARYLEFEALGFLNE 493
85 of 156	17	483 LEFEALGFLNEDHWFSR 499
86 of 156	17	489 GFLNEDHWFSRENSYSG 505
87 of 156	17	495 HWFSRENSYSGVEGEGL 511
88 of 156	17	501 NSYSGVEGEGLHKLGYI 517
89 of 156	16	506 VEGEGLHKLGYILRDI 521
90 of 156	17	511 LHKLGYILRDISKIPGG 527
91 of 156	17	517 ILRDISKIPGGAMYADD 533
92 of 156	17	523 KIPGGAMYADDTAGWDT 539
93 of 156	17	529 MYADDTAGWDTRITEDD 545
94 of 156	17	535 AGWDTRITEDDLHNEEK 551
95 of 156	17	541 ITEDDLHNEEKITQQMD 557
96 of 156	17	547 HNEEKITQQMDPEHRQL 563
97 of 156	17	553 TQQMDPEHRQLANAIFK 569
98 of 156	17	558 PEHRQLANAIFKLTYQN 574
99 of 156	17	564 ANAIFKLTYQNKVVKVQ 580
100 of 156	17	570 LTYQNKVVKVQRPTPKG 586
101 of 156	17	576 VVKVQRPTPKGTVMDII 592
102 of 156	17	582 PTPKGTVMDIISRKDQR 598
103 of 156	17	588 VMDIISRKDQRGSGQVG 604
104 of 156	17	594 RKDQRGSGQVGTYGLNT 610
105 of 156	17	600 SGQVGTYGLNTFTNMEA 616
106 of 156	17	606 YGLNTFTNMEAQLIRQM 622
107 of 156	17	612 TNMEAQLIRQMEGEGVL 628
108 of 156	17	618 LIRQMEGEGVLSKADLE 634
109 of 156	17	624 GEGVLSKADLENPHPLE 640
110 of 156	17	630 KADLENPHPLEKKITQW 646
111 of 156	17	636 PHPLEKKITQWLETKGV 652
112 of 156	17	642 KITQWLETKGVERLKRM 658
113 of 156	17	647 LETKGVERLKRMAISGD 663
114 of 156	17	652 VERLKRMAISGDDCVVK 668
115 of 156	17	658 MAISGDDCVVKPIDDRF 674
116 of 156	17	664 DCVVKPIDDRFANALLA 680
117 of 156	17	670 IDDRFANALLALNDMGK 686
118 of 156	16	676 NALLALNDMGKVRKDI 691

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Table 1		
Peptide	**Length**	**Sequence**
119 of 156	15	681 LNDMGKVRKDIPQWQ 695
120 of 156	17	685 GKVRKDIPQWQPSKGWH 701
121 of 156	16	691 IPQWQPSKGWHDWQQV 706
122 of 156	17	696 PSKGWHDWQQVPFCSHH 712
123 of 156	17	702 DWQQVPFCSHHFHELIM 718
124 of 156	17	708 FCSHHFHELIMKDGRKL 724
125 of 156	16	714 HELIMKDGRKLVVPCR 729
126 of 156	17	719 KDGRKLVVPCRPQDELI 735
127 of 156	16	725 VVPCRPQDELIGRARI 740
128 of 156	17	730 PQDELIGRARISQGAGW 746
129 of 156	17	736 GRARISQGAGWSLRETA 752
130 of 156	17	741 SQGAGWSLRETACLGKA 757
131 of 156	17	747 SLRETACLGKAYAQMWT 763
132 of 156	17	753 CLGKAYAQMWTLMYFHR 769
133 of 156	17	759 AQMWTLMYFHRRDLRLA 775
134 of 156	15	765 MYFHRRDLRLASNAI 779
135 of 156	17	769 RRDLRLASNAICSAVPV 785
136 of 156	16	775 ASNAICSAVPVHWVPT 790
137 of 156	16	780 CSAVPVHWVPTSRTTW 795
138 of 156	17	785 VHWVPTSRTTWSIHAHH 801
139 of 156	17	791 SRTTWSIHAHHQWMTTE 807
140 of 156	17	797 IHAHHQWMTTEDMLTVW 813
141 of 156	17	803 WMTTEDMLTVWNRVWIE 819
142 of 156	17	809 MLTVWNRVWIEDNPWME 825
143 of 156	17	815 RVWIEDNPWMEDKTPVT 831
144 of 156	16	821 NPWMEDKTPVTTWEDV 836
145 of 156	17	826 DKTPVTTWEDVPYLGKR 842
146 of 156	17	832 TWEDVPYLGKREDQWCG 848
147 of 156	17	838 YLGKREDQWCGSLIGLT 854
148 of 156	17	844 DQWCGSLIGLTSRATWA 860
149 of 156	17	850 LIGLTSRATWAQNILTA 866
150 of 156	16	856 RATWAQNILTAIQQVR 871
151 of 156	17	860 AQNILTAIQQVRSLIGN 876
152 of 156	17	866 AIQQVRSLIGNEEFLDY 882
153 of 156	17	872 SLIGNEEFLDYMPSMKR 888
154 of 156	17	876 NEEFLDYMPSMKRFRKE 892
155 of 156	17	882 YMPSMKRFRKEEESEGA 898
156 of 156	13	888 RFRKEEESEGAIW 900

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Table 2		
Peptide	**Solubility**	**Solvent**
1 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
2 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
3 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
4 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
5 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
6 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
7 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
8 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
9 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
10 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
11 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
12 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
13 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
14 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
15 of 156	1 mg/mL	70% acetonitrile in water
16 of 156	1 mg/mL	70% acetonitrile in water
17 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
18 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
19 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
20 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
21 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
22 of 156	1 mg/mL	100% DMSO
23 of 156	1 mg/mL	50% acetic acid in water
24 of 156	1 mg/mL	70% acetonitrile in water
25 of 156	1 mg/mL	70% acetonitrile in water
26 of 156	1 mg/mL	70% acetonitrile in water
27 of 156	1 mg/mL	70% acetonitrile in water
28 of 156	1 mg/mL	70% acetonitrile in water
29 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
30 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
31 of 156	1 mg/mL	70% acetonitrile in water
32 of 156	1 mg/mL	100% DMSO
33 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
34 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
35 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
36 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
37 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
38 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
39 of 156	1 mg/mL	100% DMSO
40 of 156	1 mg/mL	70% acetonitrile in water
41 of 156	1 mg/mL	100% DMSO
42 of 156	1 mg/mL	100% DMSO

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Peptide	**Solubility**	**Solvent**
43 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
44 of 156	1 mg/mL	70% acetonitrile in water
45 of 156	1 mg/mL	100% DMSO
46 of 156	1 mg/mL	100% DMSO
47 of 156	1 mg/mL	100% DMSO
48 of 156	1 mg/mL	100% DMSO
49 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
50 of 156	1 mg/mL	70% acetonitrile in water
51 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
52 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
53 of 156	1 mg/mL	100% DMSO
54 of 156	1 mg/mL	100% DMSO
55 of 156	1 mg/mL	100% DMSO
56 of 156	1 mg/mL	0.05% trifluoroacetic acid in water
57 of 156	1 mg/mL	100% DMSO
58 of 156	1 mg/mL	50% acetic acid in water
59 of 156	1 mg/mL	50% acetic acid in water
60 of 156	1 mg/mL	50% acetic acid in water
61 of 156	1 mg/mL	50% acetic acid in water
62 of 156	1 mg/mL	50% acetic acid in water
63 of 156	1 mg/mL	50% acetic acid in water
64 of 156	1 mg/mL	50% acetic acid in water
65 of 156	1 mg/mL	50% acetic acid in water
66 of 156	1 mg/mL	50% acetic acid in water
67 of 156	1 mg/mL	50% acetic acid in water
68 of 156	1 mg/mL	50% acetic acid in water
69 of 156	1 mg/mL	50% acetic acid in water
70 of 156	1 mg/mL	50% acetic acid in water
71 of 156	1 mg/mL	Water
72 of 156	1 mg/mL	Water
73 of 156	1 mg/mL	50% acetic acid in water
74 of 156	1 mg/mL	50% acetic acid in water
75 of 156	1 mg/mL	50% acetic acid in water
76 of 156	1 mg/mL	50% acetic acid in water
77 of 156	1 mg/mL	50% acetic acid in water
78 of 156	1 mg/mL	50% acetic acid in water
79 of 156	1 mg/mL	50% acetic acid in water
80 of 156	1 mg/mL	50% acetic acid in water
81 of 156	1 mg/mL	50% acetic acid in water
82 of 156	1 mg/mL	50% acetic acid in water
83 of 156	1 mg/mL	50% acetic acid in water
84 of 156	1 mg/mL	50% acetic acid in water

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Table 2		
Peptide	**Solubility**	**Solvent**
85 of 156	1 mg/mL	50% acetic acid in water
86 of 156	1 mg/mL	50% acetic acid in water
87 of 156	1 mg/mL	50% acetic acid in water
88 of 156	1 mg/mL	50% acetic acid in water
89 of 156	1 mg/mL	50% acetic acid in water
90 of 156	1 mg/mL	50% acetic acid in water
91 of 156	1 mg/mL	50% acetic acid in water
92 of 156	1 mg/mL	50% acetic acid in water
93 of 156	1 mg/mL	50% acetic acid in water
94 of 156	1 mg/mL	50% acetic acid in water
95 of 156	1 mg/mL	50% acetic acid in water
96 of 156	1 mg/mL	50% acetic acid in water
97 of 156	1 mg/mL	50% acetic acid in water
98 of 156	1 mg/mL	50% acetic acid in water
99 of 156	1 mg/mL	50% acetic acid in water
100 of 156	1 mg/mL	50% acetic acid in water
101 of 156	1 mg/mL	50% acetic acid in water
102 of 156	1 mg/mL	50% acetic acid in water
103 of 156	1 mg/mL	50% acetic acid in water
104 of 156	1 mg/mL	50% acetic acid in water
105 of 156	1 mg/mL	50% acetic acid in water
106 of 156	1 mg/mL	50% acetic acid in water
107 of 156	1 mg/mL	50% acetic acid in water
108 of 156	1 mg/mL	50% acetic acid in water
109 of 156	1 mg/mL	50% acetic acid in water
110 of 156	1 mg/mL	50% acetic acid in water
111 of 156	1 mg/mL	50% acetic acid in water
112 of 156	1 mg/mL	50% acetic acid in water
113 of 156	1 mg/mL	50% acetic acid in water
114 of 156	1 mg/mL	50% acetic acid in water
115 of 156	1 mg/mL	50% acetic acid in water
116 of 156	1 mg/mL	50% acetic acid in water
117 of 156	1 mg/mL	50% acetic acid in water
118 of 156	1 mg/mL	50% acetic acid in water
119 of 156	1 mg/mL	50% acetic acid in water
120 of 156	1 mg/mL	50% acetic acid in water
121 of 156	1 mg/mL	50% acetic acid in water
122 of 156	1 mg/mL	50% acetic acid in water
123 of 156	1 mg/mL	50% acetic acid in water
124 of 156	1 mg/mL	50% acetic acid in water
125 of 156	1 mg/mL	50% acetic acid in water
126 of 156	1 mg/mL	50% acetic acid in water

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Table 2		
Peptide	**Solubility**	**Solvent**
127 of 156	1 mg/mL	50% acetic acid in water
128 of 156	1 mg/mL	50% acetic acid in water
129 of 156	1 mg/mL	50% acetic acid in water
130 of 156	1 mg/mL	50% acetic acid in water
131 of 156	1 mg/mL	50% acetic acid in water
132 of 156	1 mg/mL	50% acetic acid in water
133 of 156	1 mg/mL	50% acetic acid in water
134 of 156	1 mg/mL	50% acetic acid in water
135 of 156	1 mg/mL	50% acetic acid in water
136 of 156	1 mg/mL	50% acetic acid in water
137 of 156	1 mg/mL	50% acetic acid in water
138 of 156	1 mg/mL	50% acetic acid in water
139 of 156	1 mg/mL	50% acetic acid in water
140 of 156	1 mg/mL	50% acetic acid in water
141 of 156	1 mg/mL	100% DMSO
142 of 156	1 mg/mL	50% acetic acid in water
143 of 156	1 mg/mL	50% acetic acid in water
144 of 156	1 mg/mL	50% acetic acid in water
145 of 156	1 mg/mL	50% acetic acid in water
146 of 156	1 mg/mL	50% acetic acid in water
147 of 156	1 mg/mL	50% acetic acid in water
148 of 156	1 mg/mL	50% acetic acid in water
149 of 156	1 mg/mL	50% acetic acid in water
150 of 156	1 mg/mL	50% acetic acid in water
151 of 156	1 mg/mL	50% acetic acid in water
152 of 156	1 mg/mL	50% acetic acid in water
153 of 156	1 mg/mL	50% acetic acid in water
154 of 156	1 mg/mL	50% acetic acid in water
155 of 156	1 mg/mL	100% DMSO
156 of 156	1 mg/mL	50% acetic acid in water

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