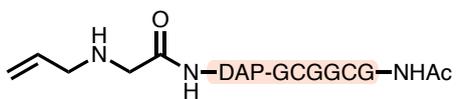


X-GCGGCG

X1



Sequence:

Chemical Formula: $C_{74}H_{96}N_{42}O_{21}$, Exact Mass: 1908.77

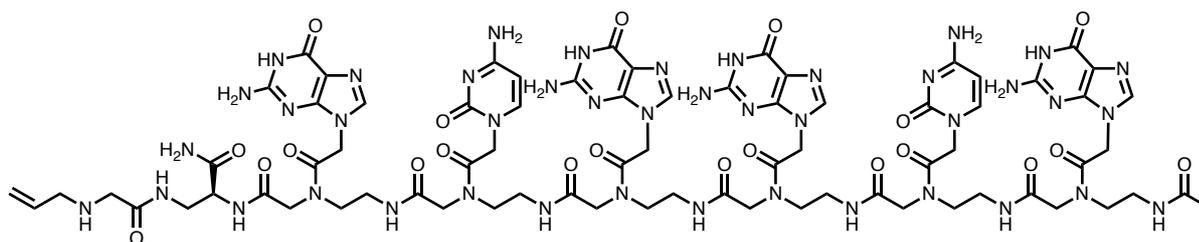
LC-MS (ESI) RT = 1.03 min, m/z found: 956.00 $[M+2H]^{2+}$, 637.83 $[M+3H]^{3+}$; calc. ^{*1} 955.39 $[M+2H]^{2+}$, 637.27 $[M+3H]^{3+}$

MALDI-TOF m/z found ^{*2} 1910.165 $[M+H]^+$, 1932.122 $[M+Na]^+$; calc. ^{*3} 1909.7808 $[M+H]^+$, 1931.7627 $[M+Na]^+$

^{*1}It was calculated with enviPad using centroid mode.

^{*2}Reflector mode was used.

^{*3} It was calculated with enviPad using profile mode.

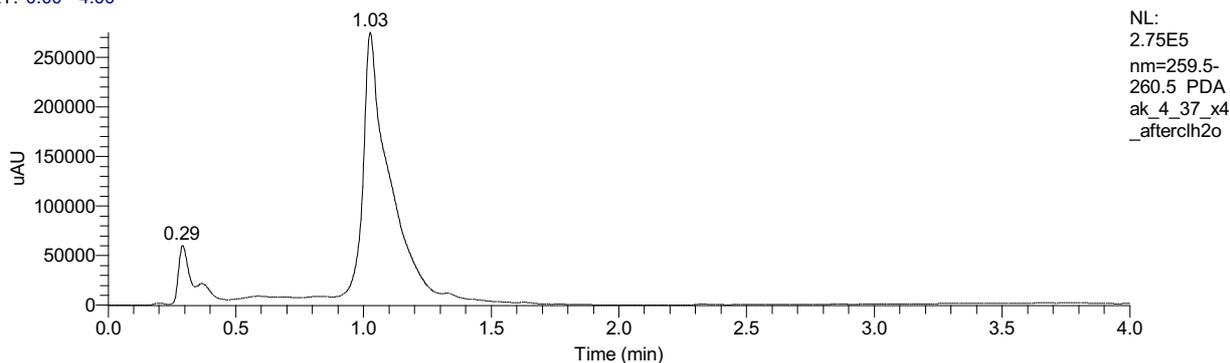


m/z: 1908.77 (100.0%), 1909.78 (81.9%), 1910.78 (37.6%)

ak_4_37_x4_afterchl2o

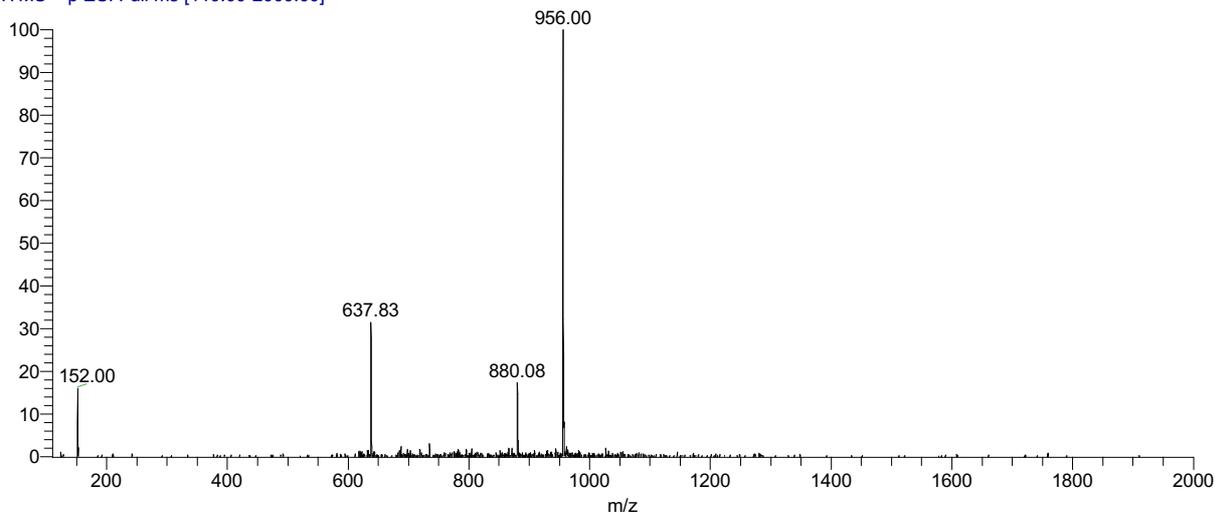
19/06/2023 22:20:18

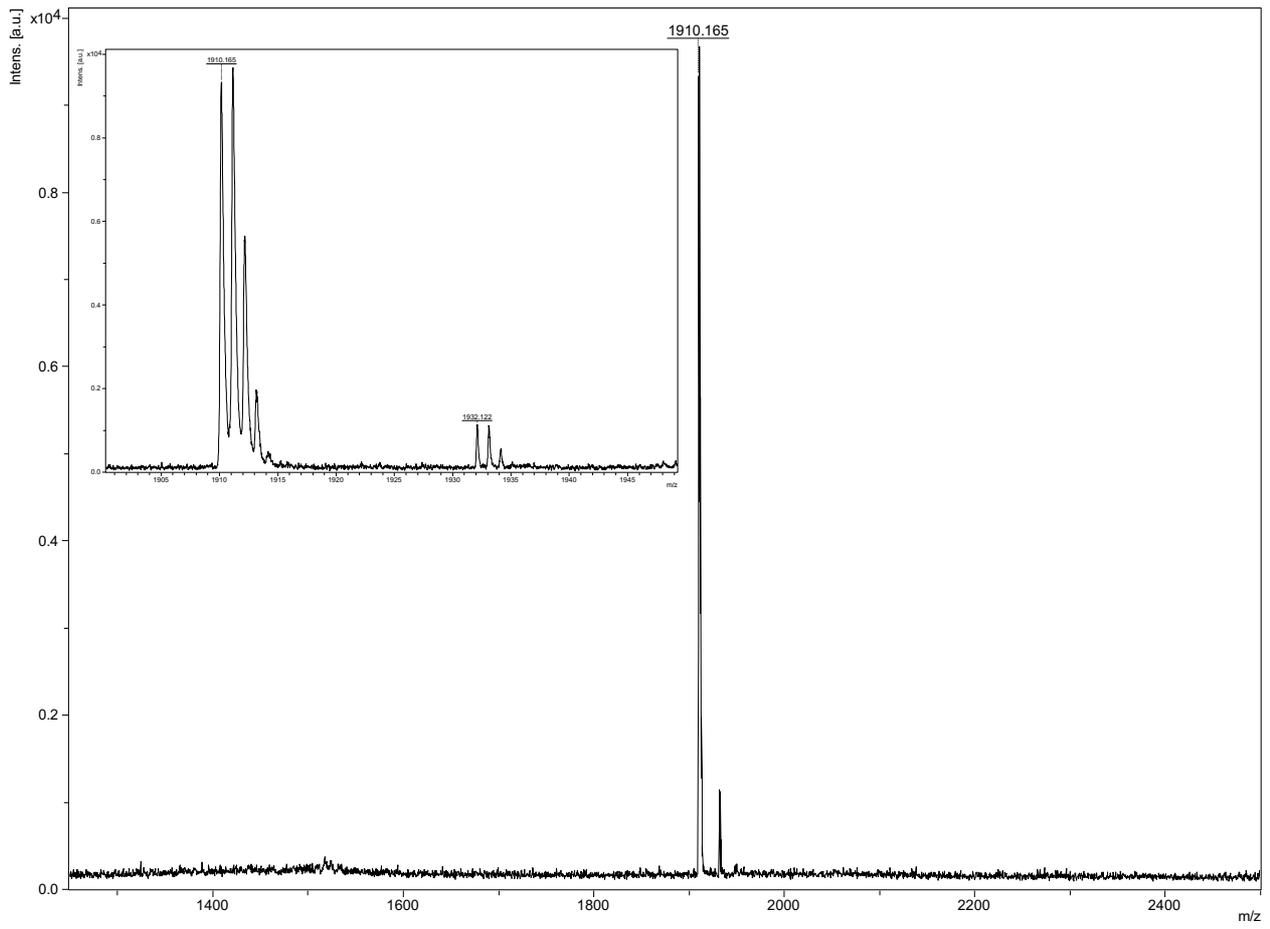
RT: 0.00 - 4.00



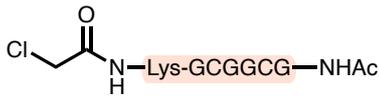
ak_4_37_x4_afterchl2o #61 RT: 1.03 AV: 1 NL: 8.26E2

T: ITMS + p ESI Full ms [110.00-2000.00]





X2

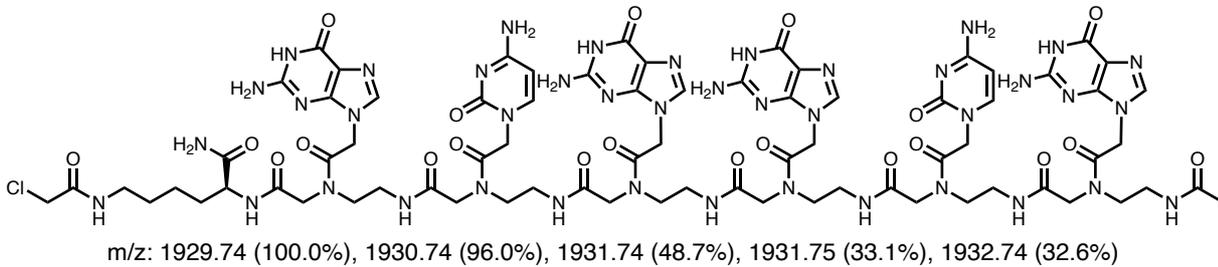


Sequence:

Chemical Formula: C₇₄H₉₆ClN₄₁O₂₁, Exact Mass: 1929.73

LC-MS (ESI) RT = 1.15 min, m/z found: 966.33 [M+2H]²⁺, 644.58 [M+3H]³⁺, 965.88 [M+2H]²⁺, 644.25 [M+3H]³⁺

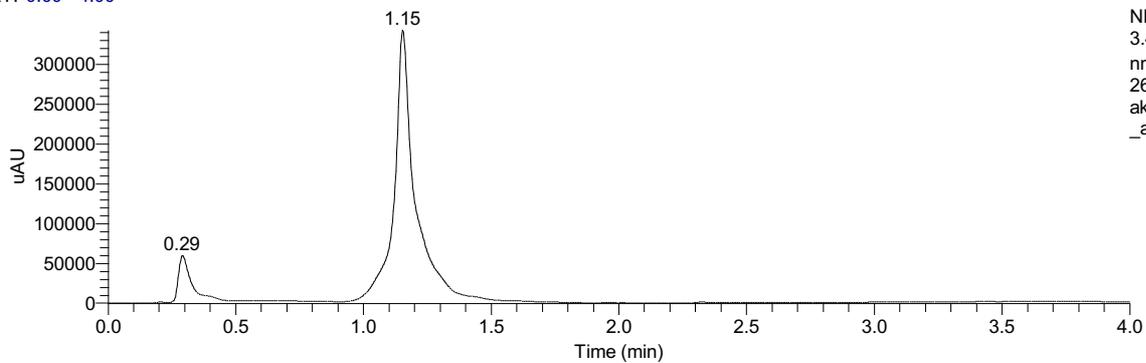
MALDI-TOF m/z found 1931.16 [M+H]⁺, 1953.13 [M+Na]⁺; calc. 1930.75 [M+H]⁺, 1952.73 [M+Na]⁺



ak_4_35_x9_aftercl_h2o

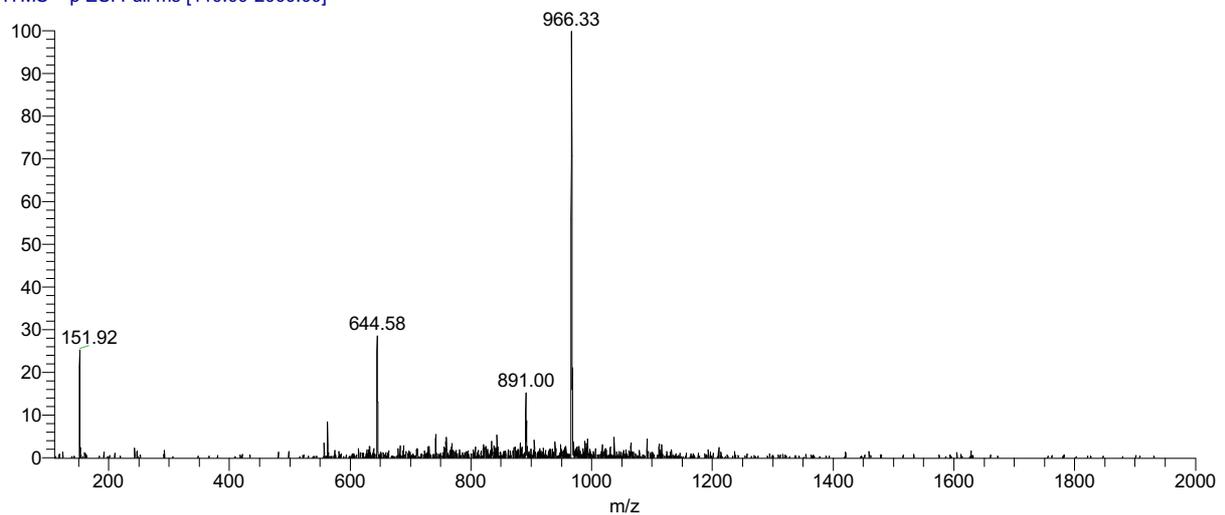
19/06/2023 22:58:04

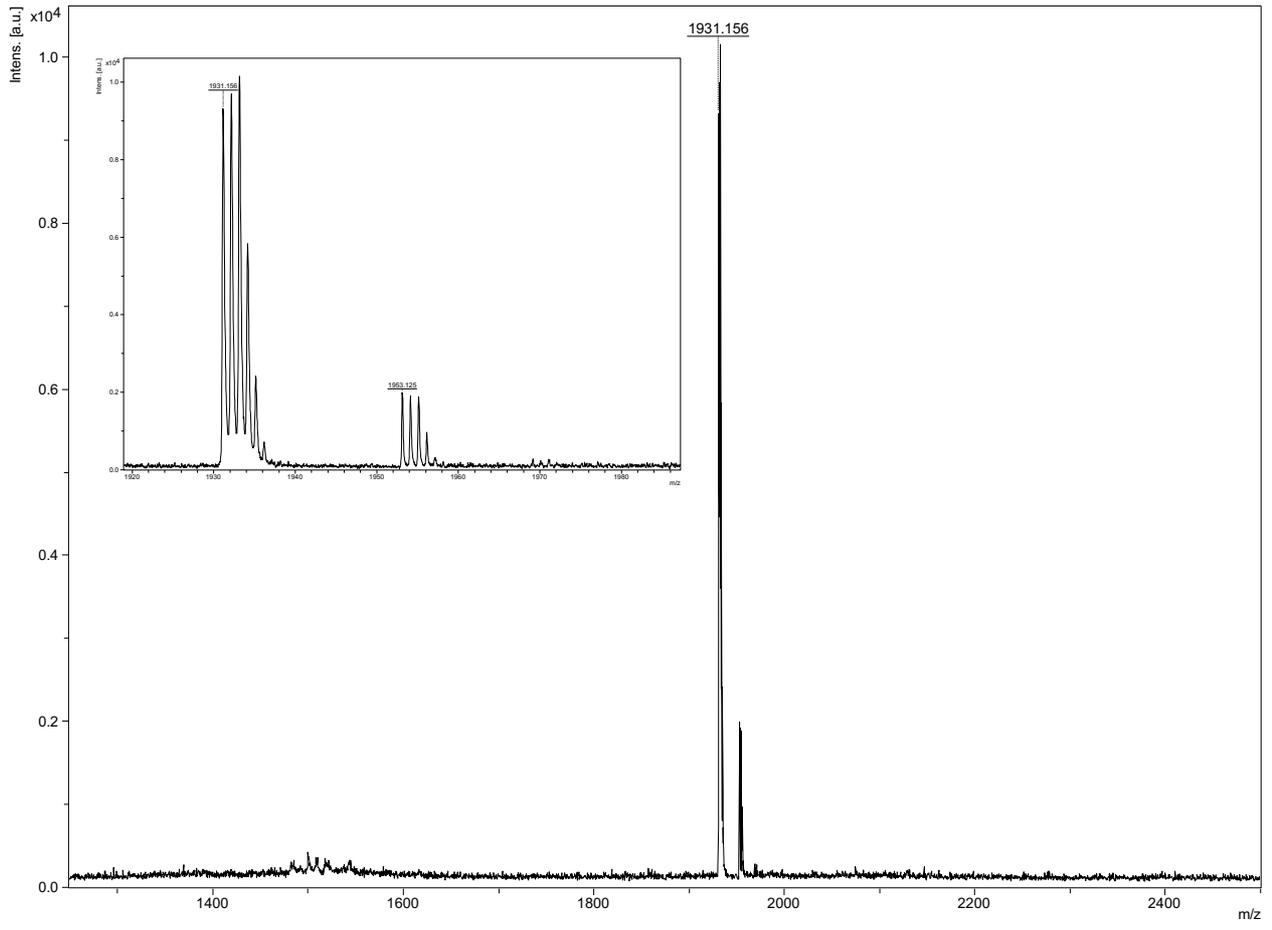
RT: 0.00 - 4.00



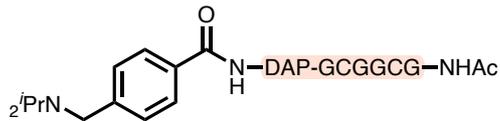
NL:
3.42E5
nm=259.5-
260.5 PDA
ak_4_35_x9
_aftercl_h2o

ak_4_35_x9_aftercl_h2o#68 RT: 1.15 AV: 1 NL: 4.13E2
T: ITMS + p ESI Full ms [110.00-2000.00]





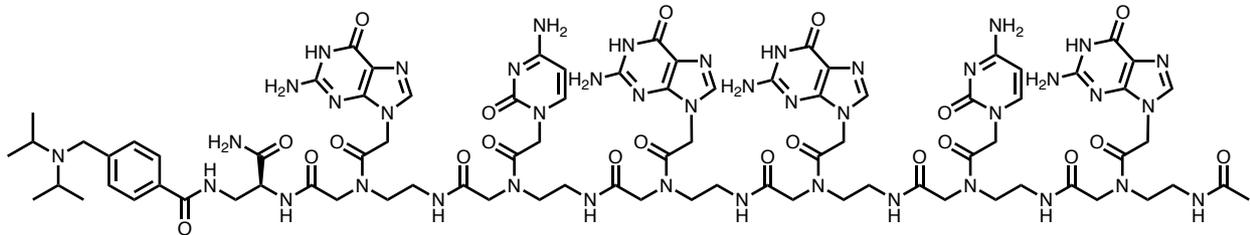
X3



Chemical Formula: $\text{C}_{83}\text{H}_{108}\text{N}_{42}\text{O}_{21}$, Exact Mass: 2028.86

LC-MS (ESI) RT = 1.12 min, m/z found: 1016.00 $[\text{M}+2\text{H}]^{2+}$, 677.75 $[\text{M}+3\text{H}]^{3+}$; 1015.94 $[\text{M}+2\text{H}]^{2+}$, 677.63 $[\text{M}+3\text{H}]^{3+}$

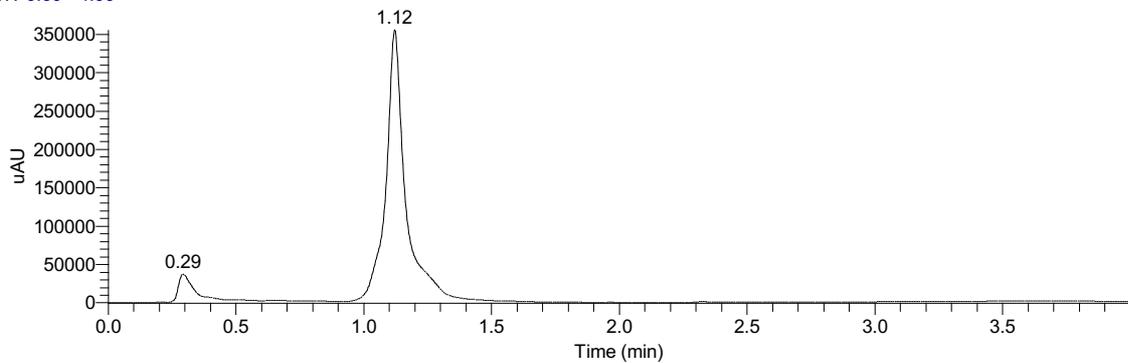
MALDI-TOF m/z found 2030.39 $[\text{M}+\text{H}]^+$, 2052.31 $[\text{M}+\text{Na}]^+$; calc. 2029.88 $[\text{M}+\text{H}]^+$, 2051.86 $[\text{M}+\text{Na}]^+$



ak_4_34_x8_aftercl_h2o

19/06/2023 23:10:43

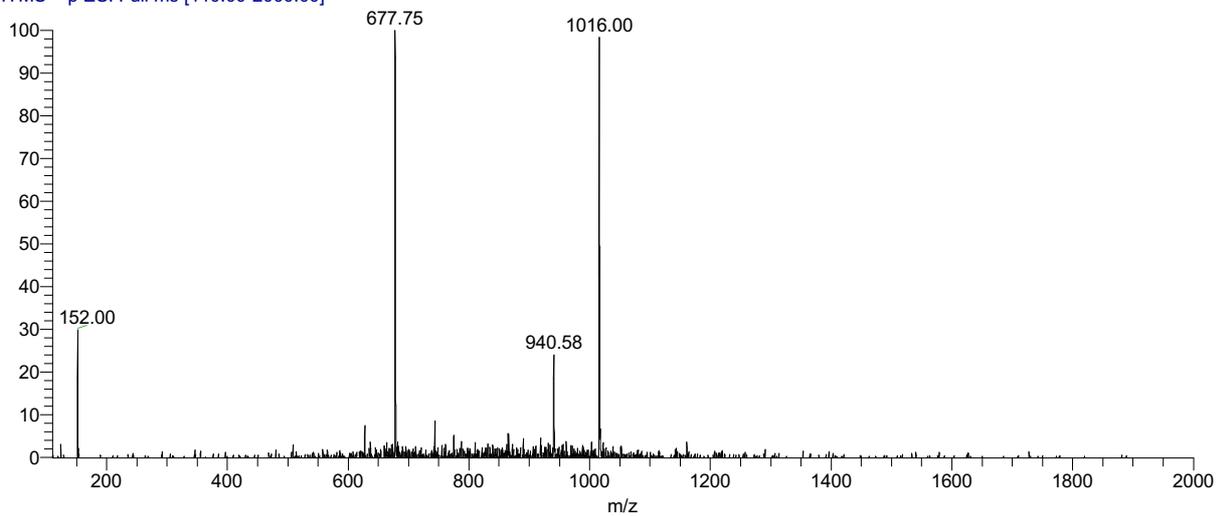
RT: 0.00 - 4.00

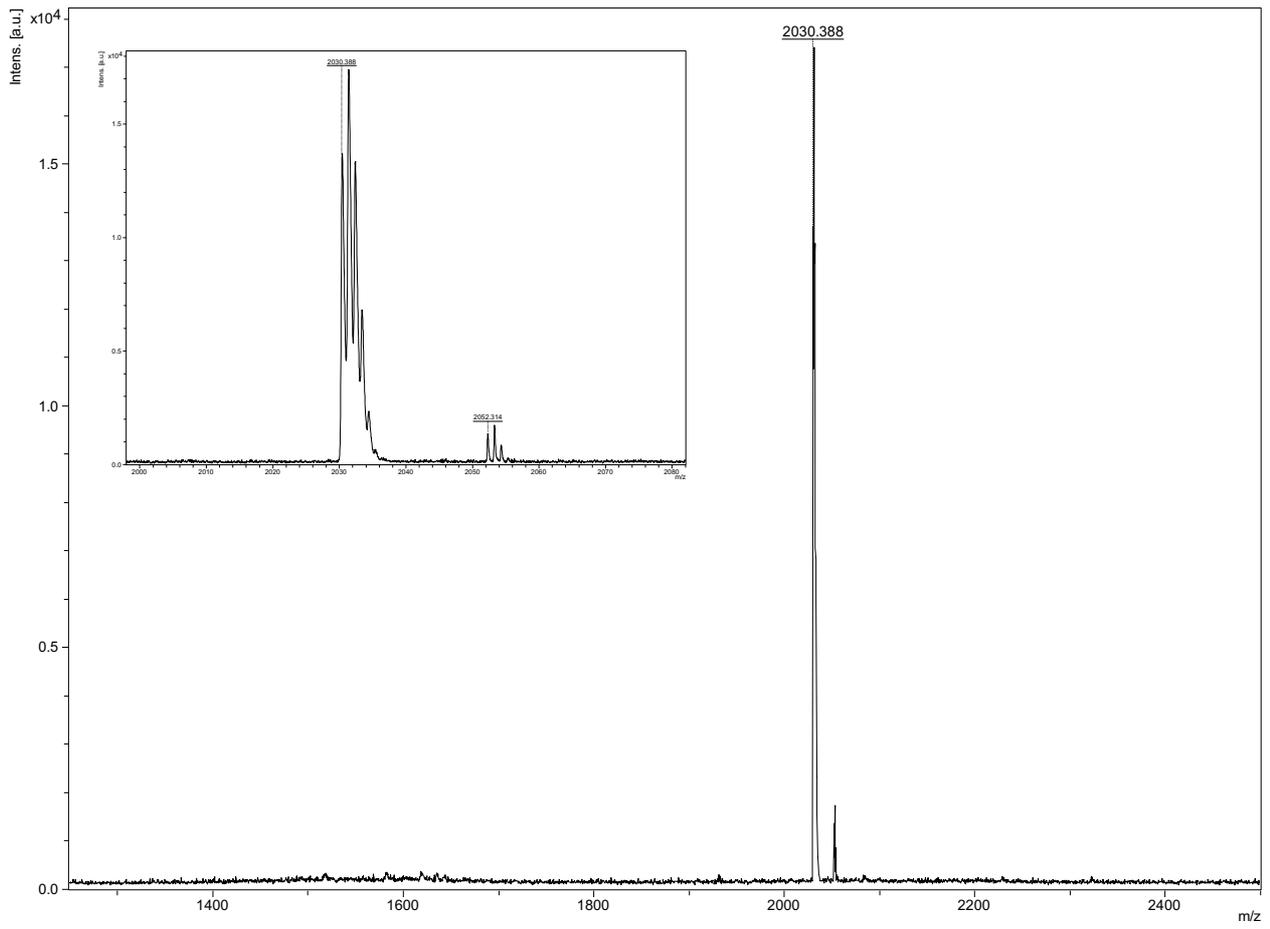


NL:
3.55E5
nm=259.5-
260.5 PDA
ak_4_34_x8
_aftercl_h2o

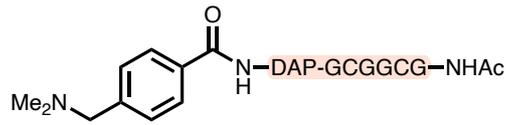
ak_4_34_x8_aftercl_h2o#67 RT: 1.13 AV: 1 NL: 1.13E3

T: ITMS + p ESI Full ms [110.00-2000.00]





X4

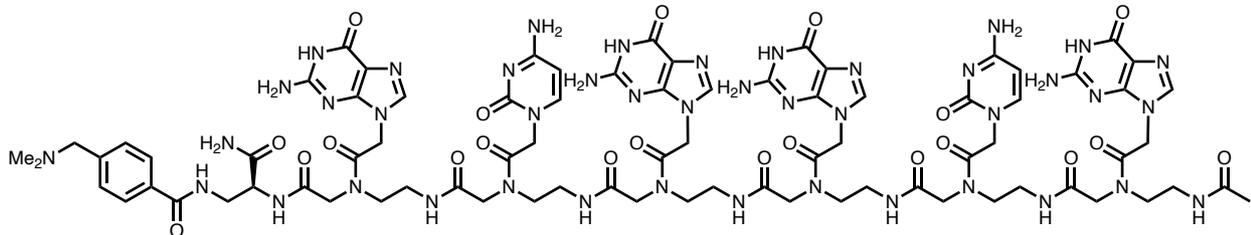


Sequence:

Chemical Formula: C₇₉H₁₀₀N₄₂O₂₁, Exact Mass: 1972.8048

LC-MS (ESI) RT = 1.05 min, m/z found: 988.00 [M+2H]²⁺, 658.92 [M+3H]³⁺, 987.91 [M+2H]²⁺, 658.94 [M+3H]³⁺

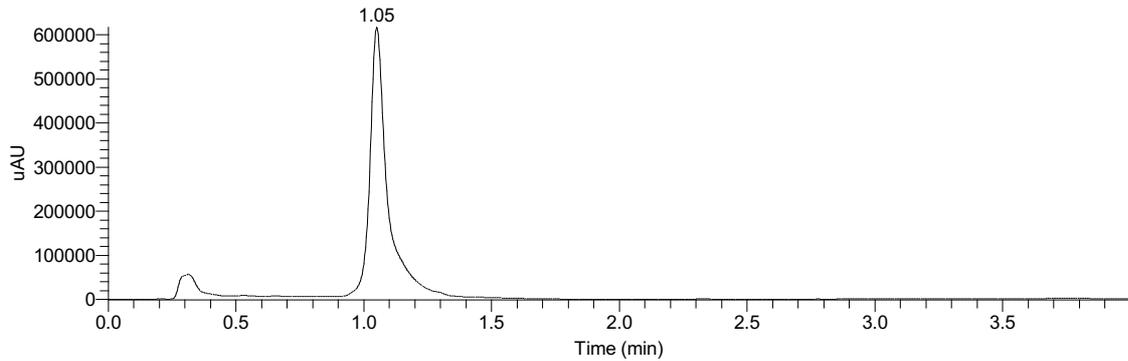
MALDI-TOF m/z found 1974.81 [M+H]⁺, 1996.60 [M+Na]⁺; calc. 1973.81 [M+H]⁺, 1995.79 [M+Na]⁺



ak_4_34_x7_aftercl_h2o

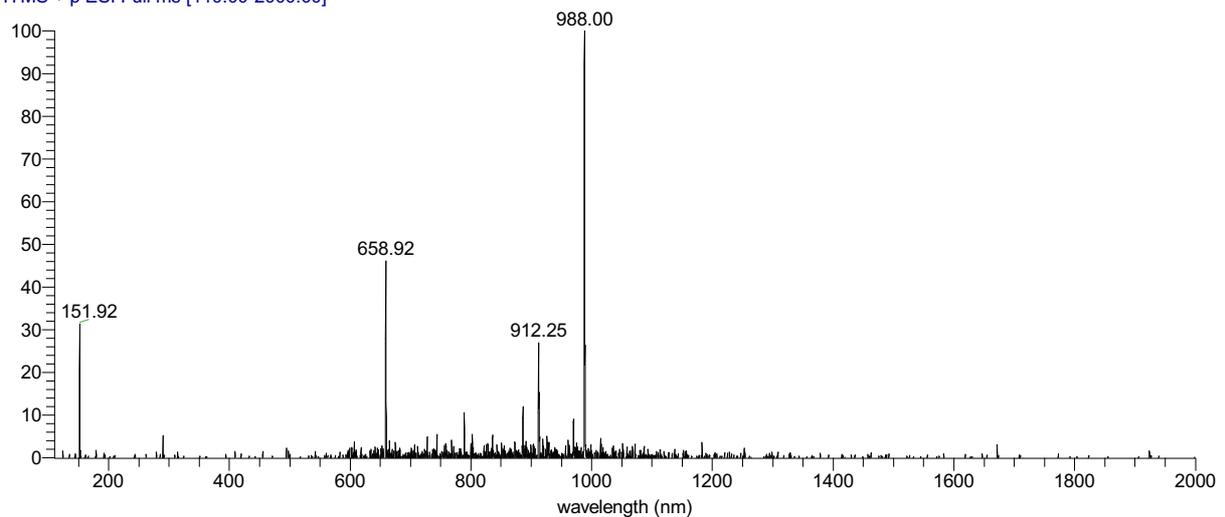
19/06/2023 23:23:18

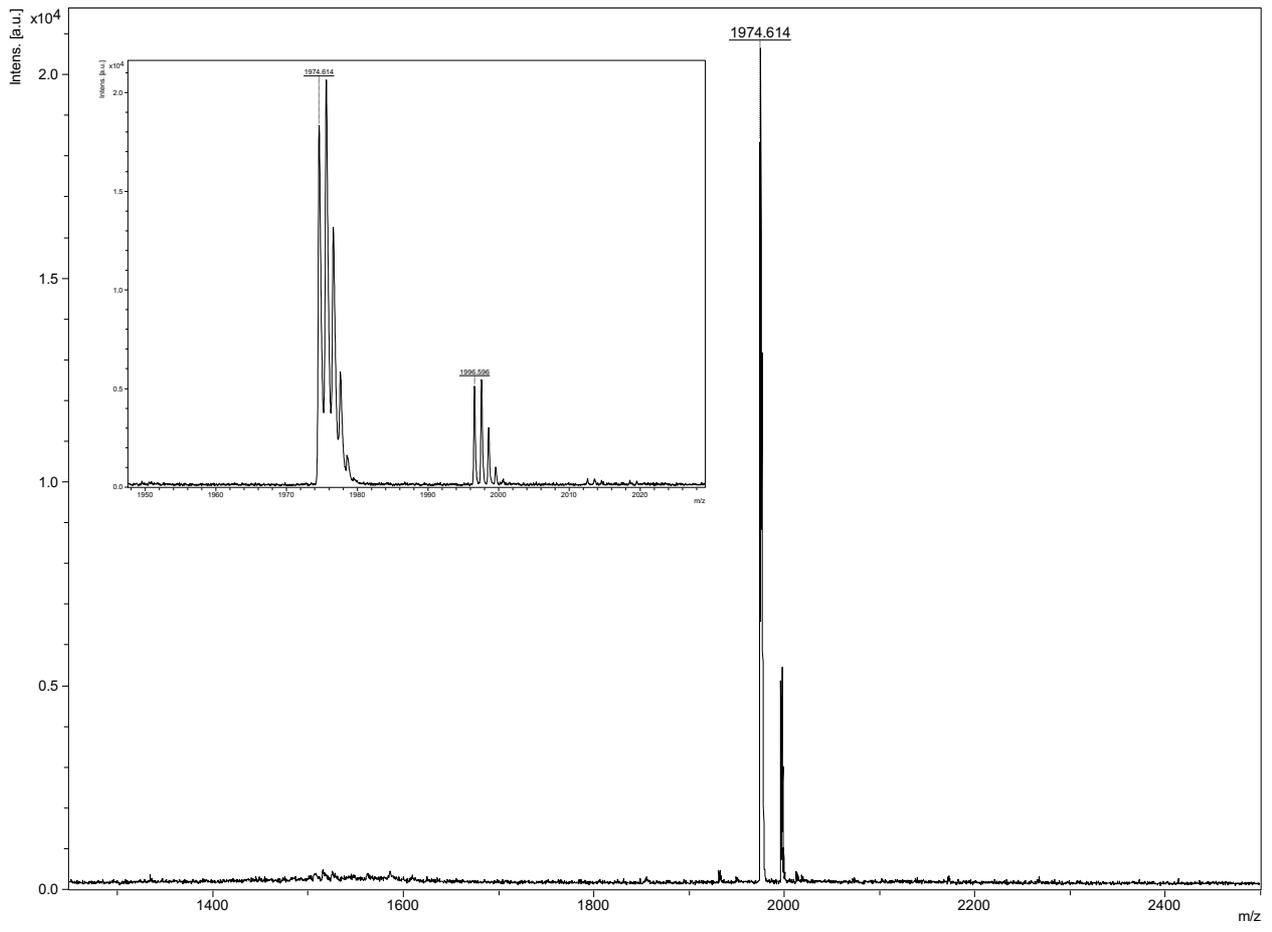
RT: 0.00 - 4.00

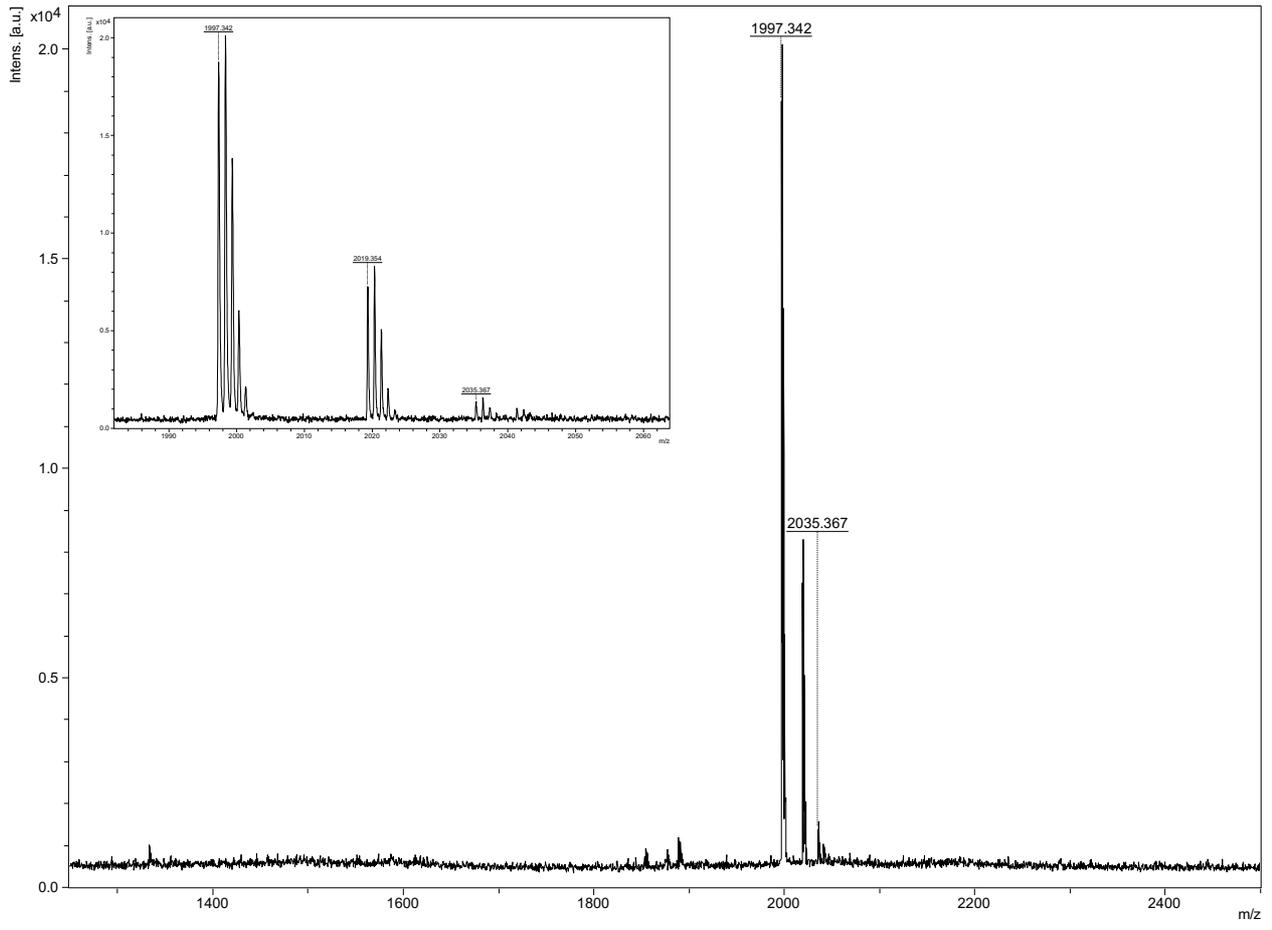


ak_4_34_x7_aftercl_h2o #62 RT: 1.04 AV: 1 NL: 6.08E2

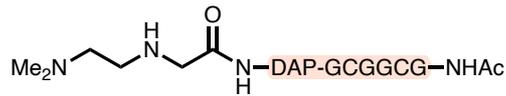
T: ITMS + p ESI Full ms [110.00-2000.00]







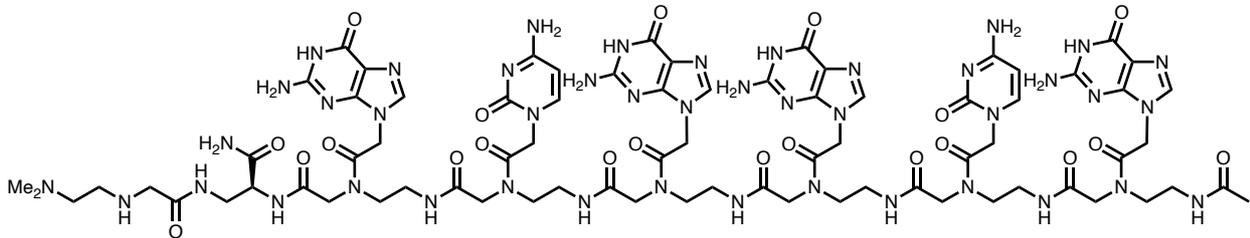
X6



Chemical Formula: $C_{75}H_{101}N_{43}O_{21}$ Exact Mass: 1939.82

LC-MS (ESI) RT = 1.07 min, m/z found: 971.50 [M+2H]²⁺, 647.83 [M+3H]³⁺; calc. 970.92 [M+2H]²⁺, 647.61 [M+3H]³⁺

MALDI-TOF m/z found 1941.21 [M+H]⁺, 1963.24 [M+Na]⁺; calc. 1940.82 [M+H]⁺, 1962.80 [M+Na]⁺

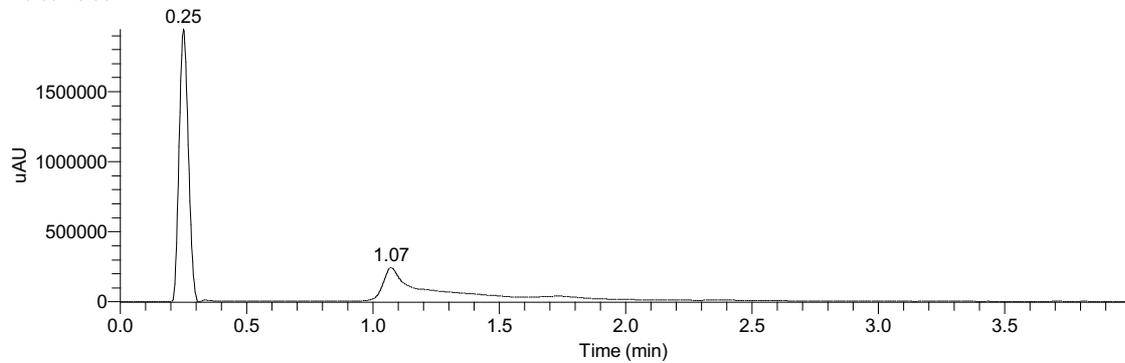


m/z: 1939.82 (100.0%), 1940.82 (83.1%), 1941.82 (50.6%)

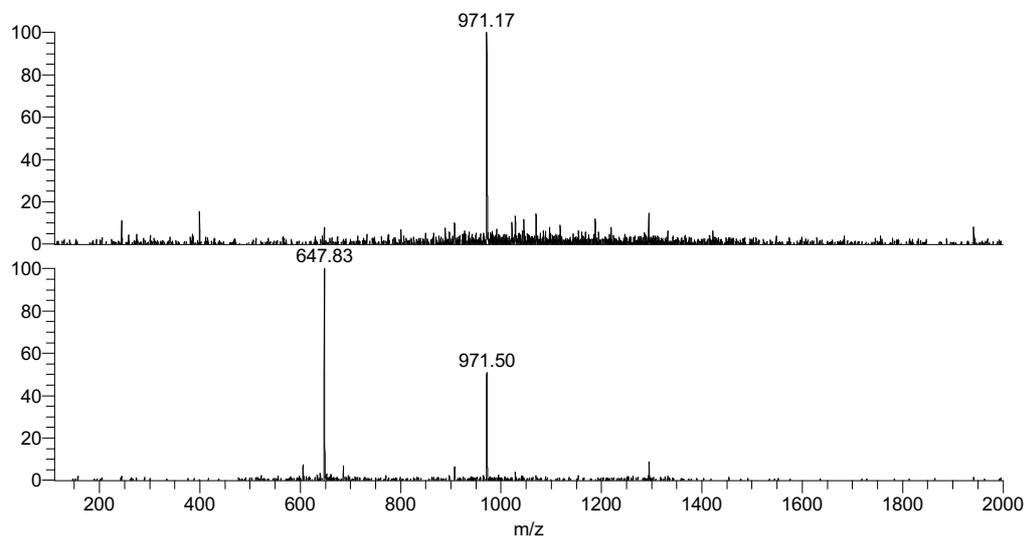
\\lcqfleetpc\data...lak_4_37_me_aftercl

07/03/2023 20:29:36

RT: 0.00 - 3.98

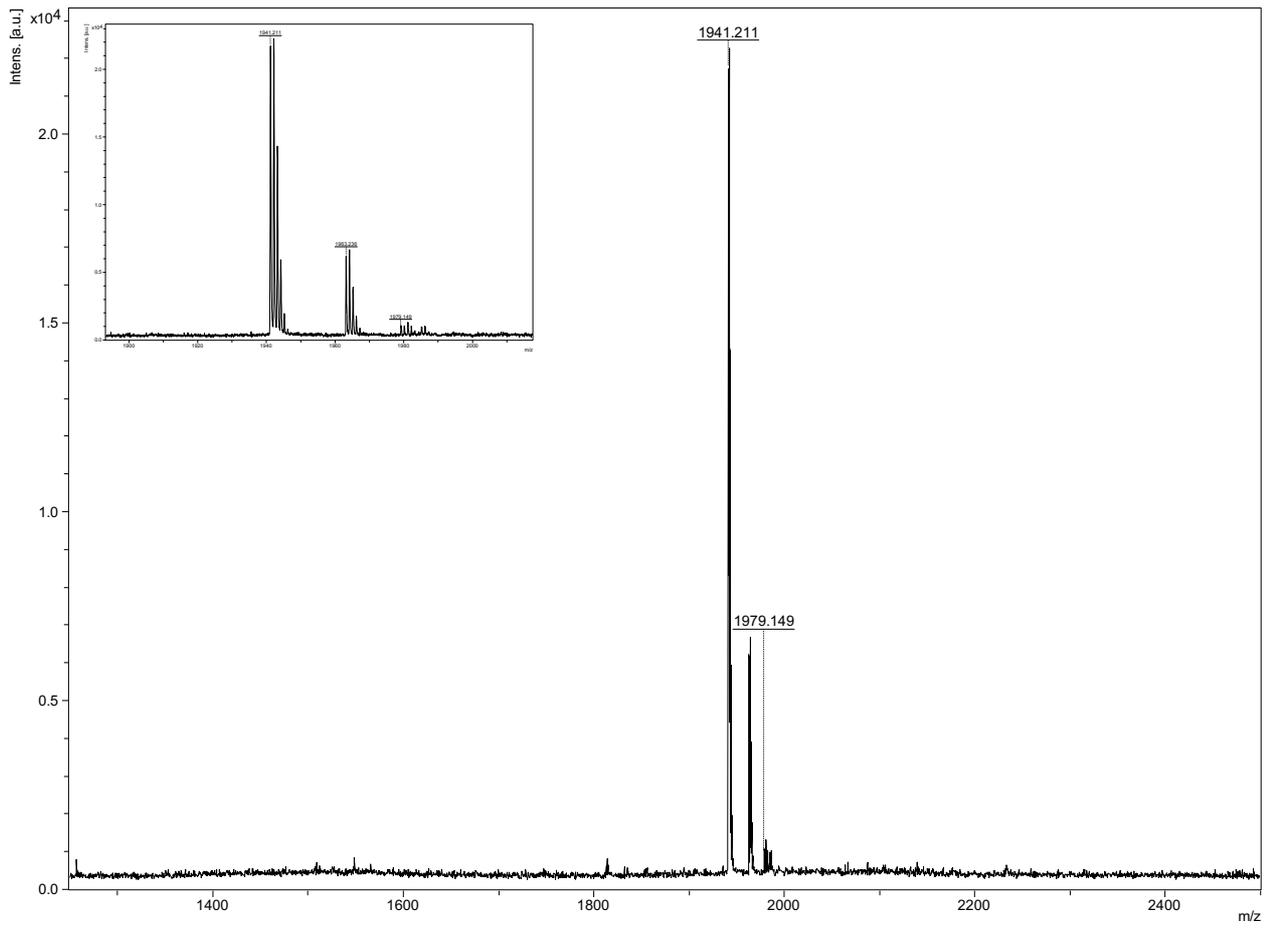


NL: 1.94E6
nm=259.5-
260.5 PDA
ak_4_37_m
e_aftercl

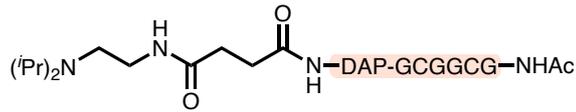


NL: 3.51E3
ak_4_37_me_aftercl#1
6 RT: 0.25 AV: 1 T:
ITMS + p ESI Full ms
[110.00-2000.00]

NL: 3.80E3
ak_4_37_me_aftercl#6
7 RT: 1.08 AV: 1 T:
ITMS + p ESI Full ms
[110.00-2000.00]



X7



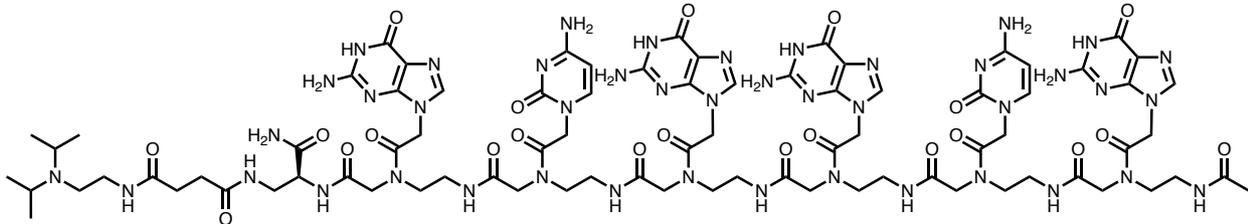
Sequence:

Chemical Formula: C₈₁H₁₁₁N₄₃O₂₂, Exact Mass: 2037.8889, LC-MS (ESI) RT = 1.08 min,

m/z found: 1020.17 [M+2H]²⁺, 680.75 [M+3H]³⁺;

MALDI-TOF m/z found 2039.331 [M+H]⁺, 2061.337 [M+Na]⁺

Calc. Monoisotopic Mass: 2038.8961 [M+H]⁺, 2060.8781 [M+Na]⁺

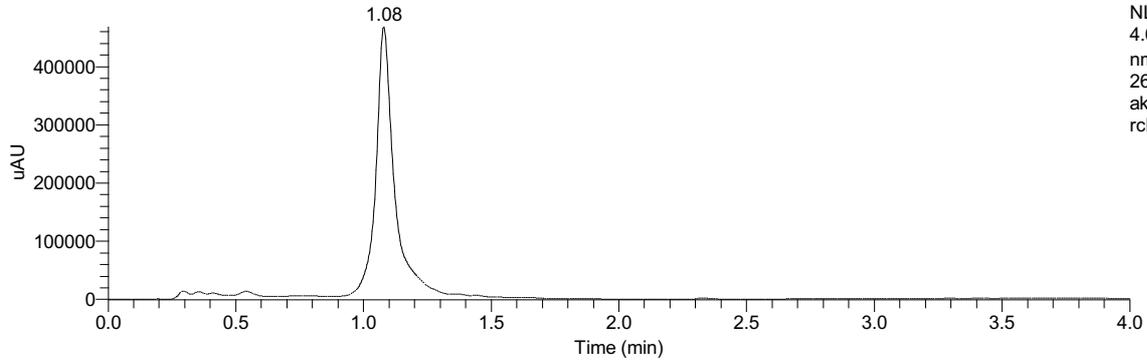


m/z: 2038.89 (100.0%), 2037.89 (95.9%), 2039.90 (38.1%)

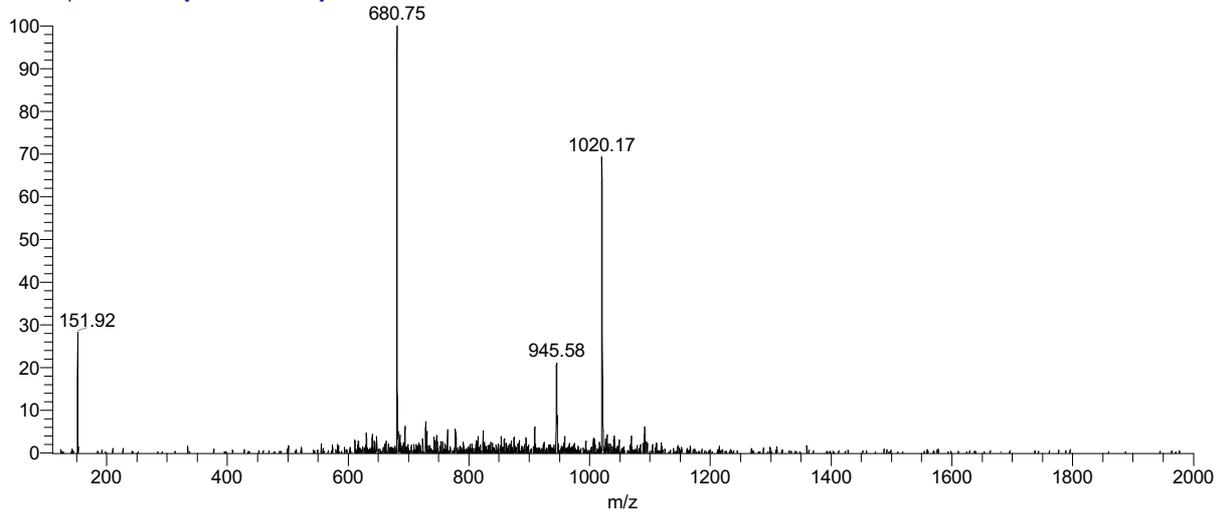
\\cqfleetpc\data...lak_5_5_aftercl_h2o

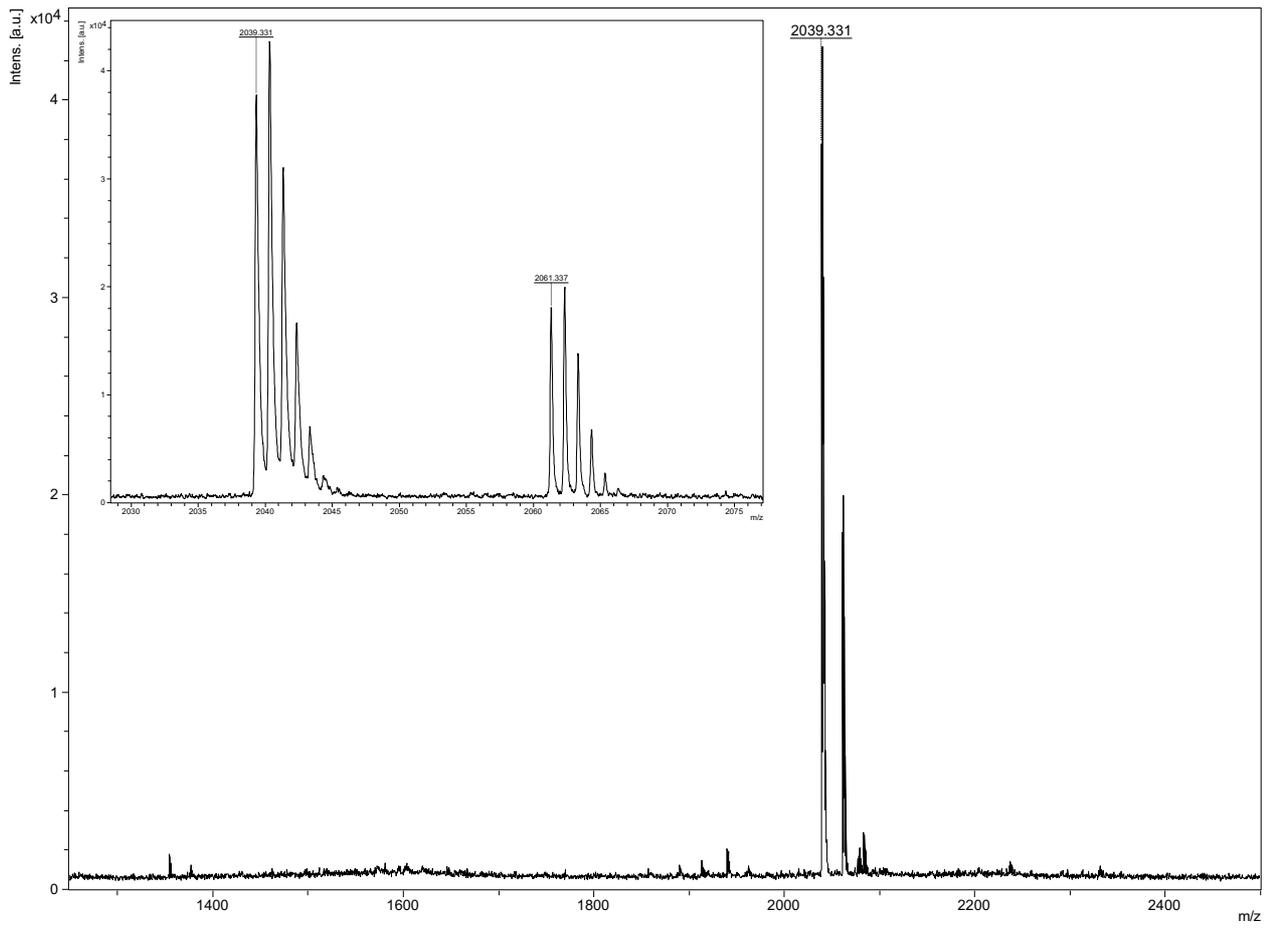
19/06/2023 22:07:35

RT: 0.00 - 4.00

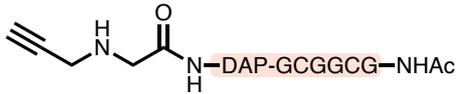


ak_5_5_aftercl_h2o #64 RT: 1.08 AV: 1 NL: 1.00E3
T: ITMS + p ESI Full ms [110.00-2000.00]





X8

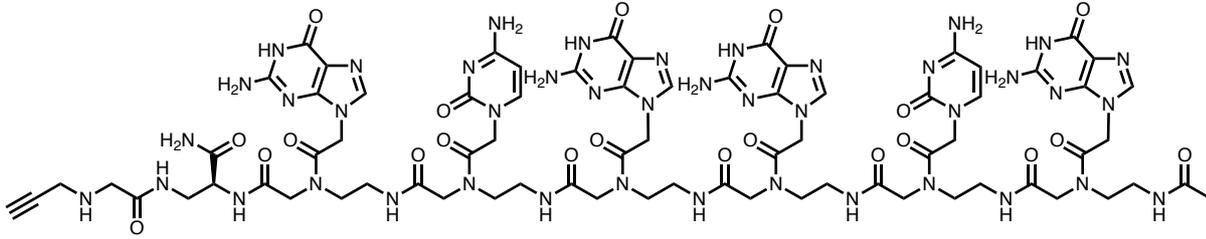


Sequence:

Chemical Formula: $C_{74}H_{94}N_{42}O_{21}$, Exact Mass: 1906.76

LC-MS (ESI) RT = 1.01 min, m/z found: 954.75 [M+2H]²⁺, 637.17 [M+3H]³⁺; calc. 954.38 [M+2H]²⁺, 636.59 [M+3H]³⁺

MALDI-TOF m/z found 1908.03 [M+H]⁺, 1930.01 [M+Na]⁺; calc. 1907.77 [M+H]⁺, 1929.75 [M+Na]⁺

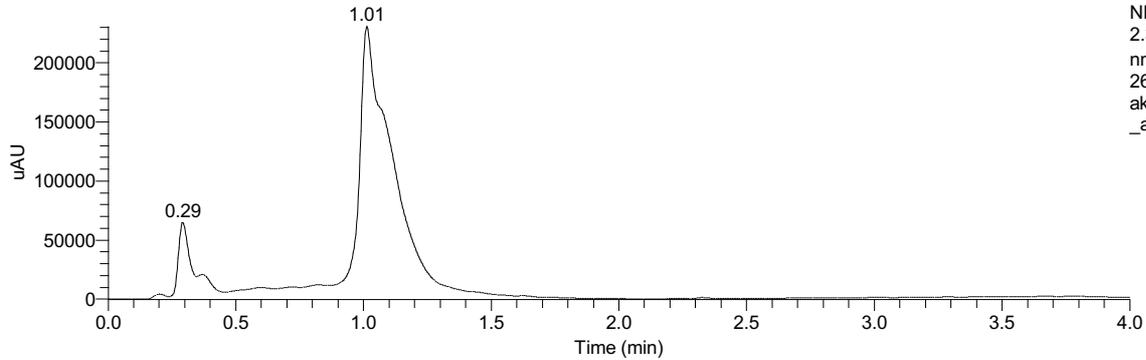


m/z: 1906.76 (100.0%), 1907.76 (81.9%), 1908.76 (48.6%)

ak_4_37_x5_aftercl_h2o

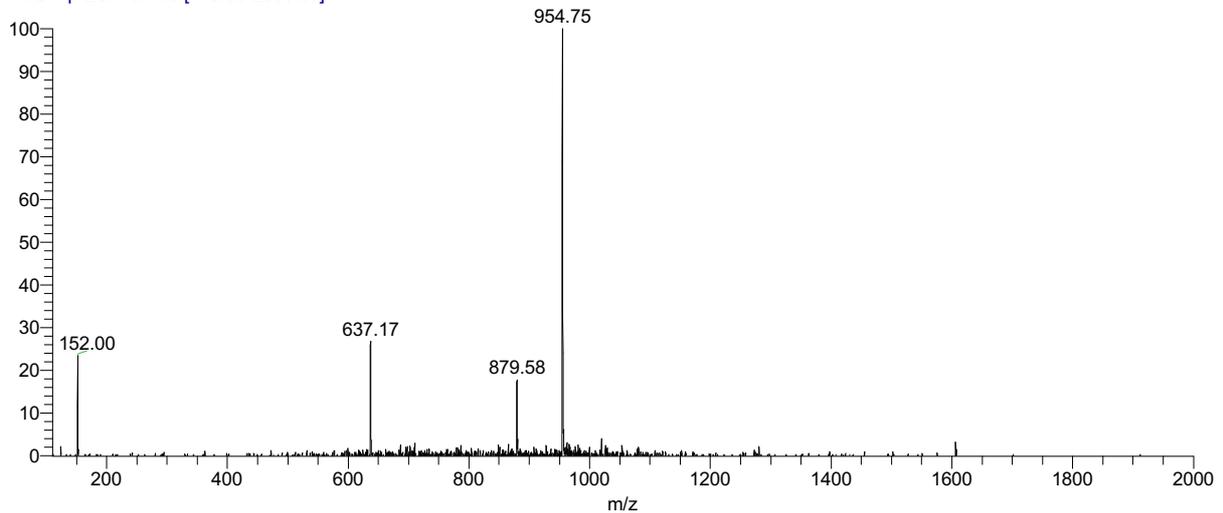
19/06/2023 22:32:55

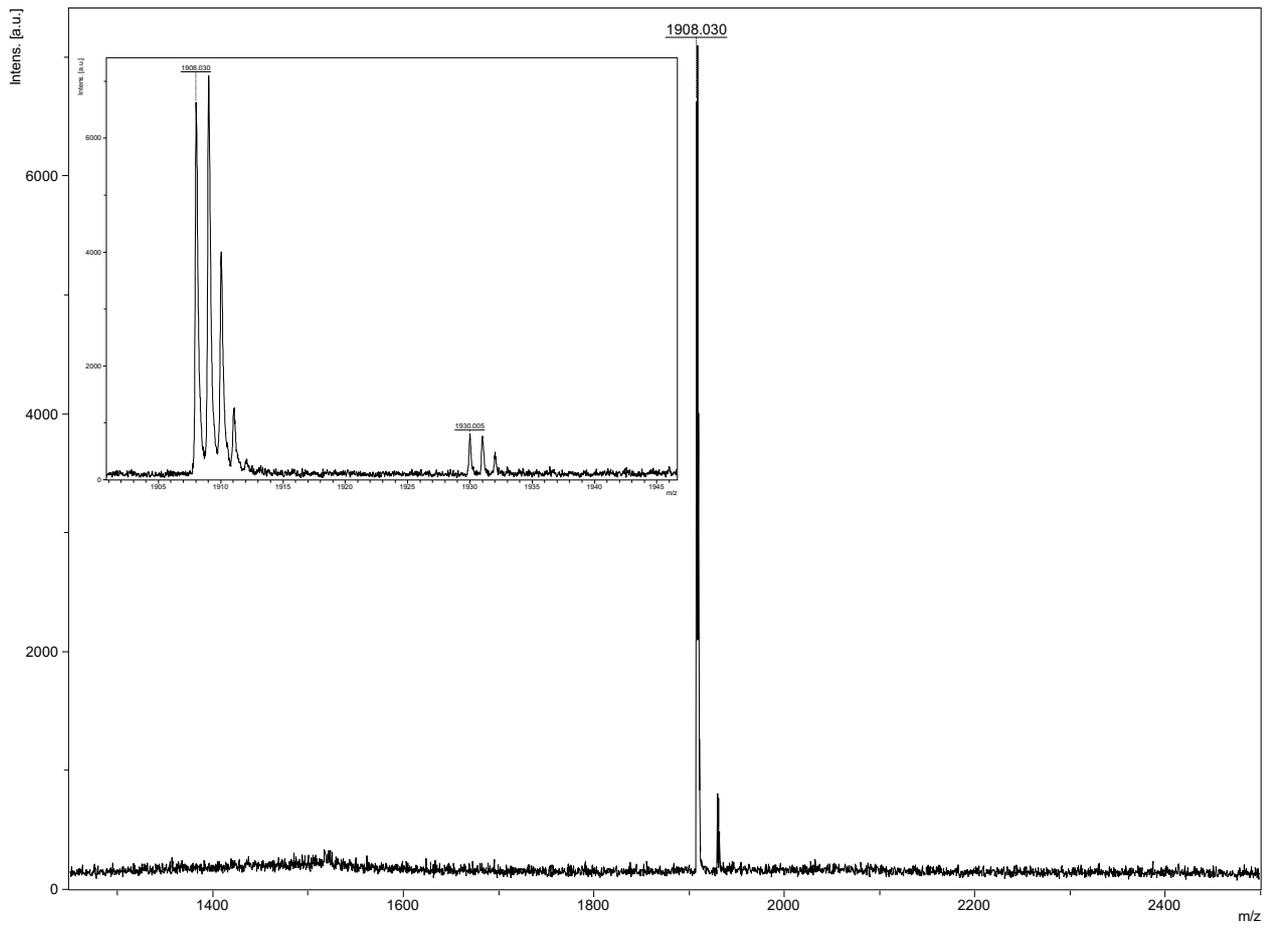
RT: 0.00 - 4.00



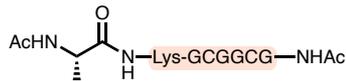
NL:
2.31E5
nm=259.5-
260.5 PDA
ak_4_37_x5
_aftercl_h2o

ak_4_37_x5_aftercl_h2o #60 RT: 1.01 AV: 1 NL: 4.92E2
T: ITMS + p ESI Full ms [110.00-2000.00]





X9

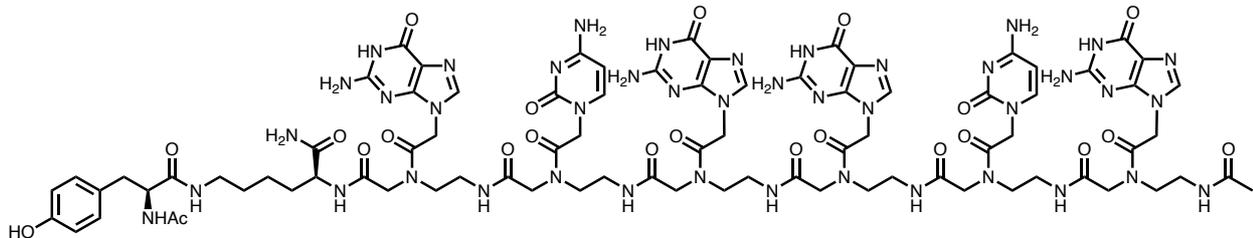


Sequence:

Chemical Formula: C₈₃H₁₀₆N₄₂O₂₃, Exact Mass: 2058.84

LC-MS (ESI) RT = 1.26 min, m/z found: 1030.75 [M+2H]²⁺, 687.75 [M+3H]³⁺; calc. 1030.93 [M+2H]²⁺, 687.62 [M+3H]³⁺

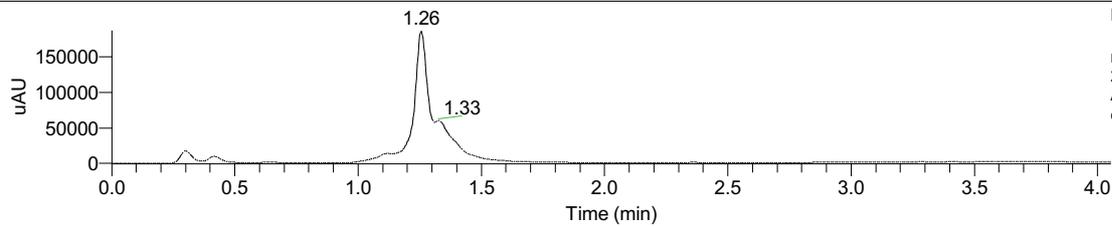
MALDI-TOF m/z found 2060.291 [M+H]⁺, 2082.83 [M+Na]⁺; calc. 2059.85 [M+H]⁺, 2081.83 [M+Na]⁺



m/z: 2059.84 (100.0%), 2058.84 (95.0%), 2060.85 (44.1%)

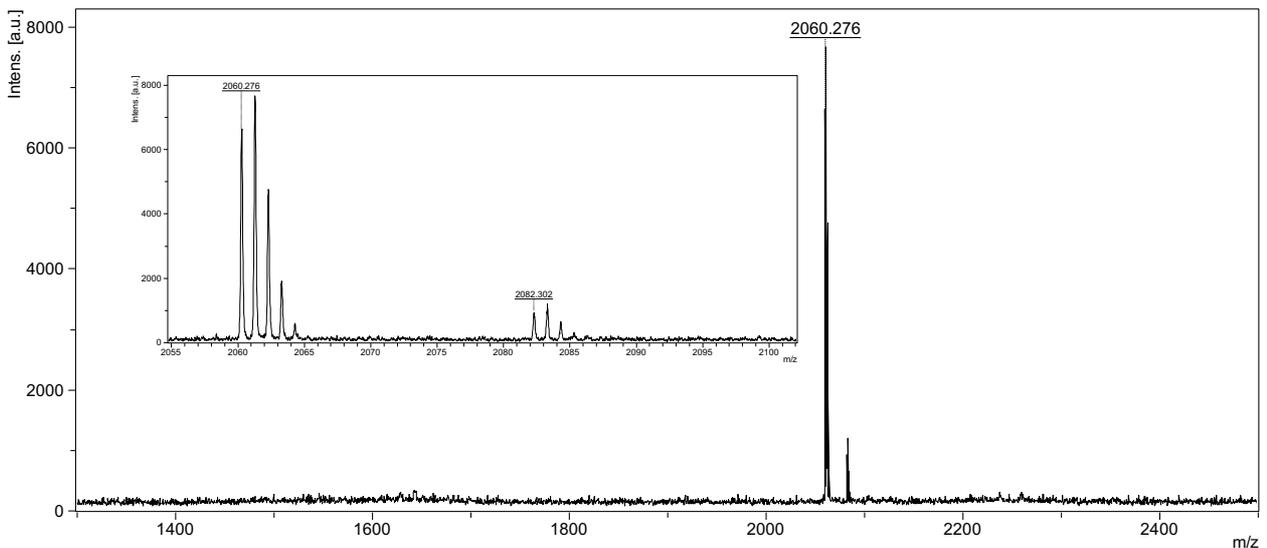
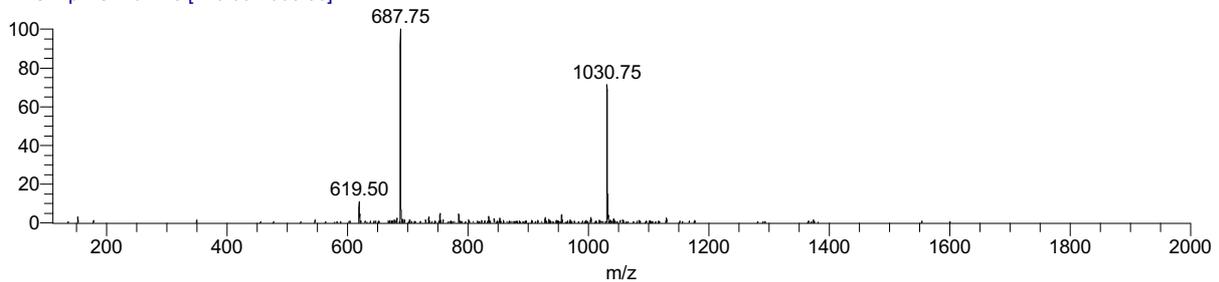
AK_5_7_Tyr_aftercl_H2O

02/05/2023 21:09:08



NL:
1.87E5
nm=259.5-
260.5 PDA
AK_5_7_Tyr_ aft
ercl_H2O

AK_5_7_Tyr_aftercl_H2O #75 RT: 1.27 AV: 1 NL: 7.20E2
T: ITMS + p ESI Full ms [110.00-2000.00]



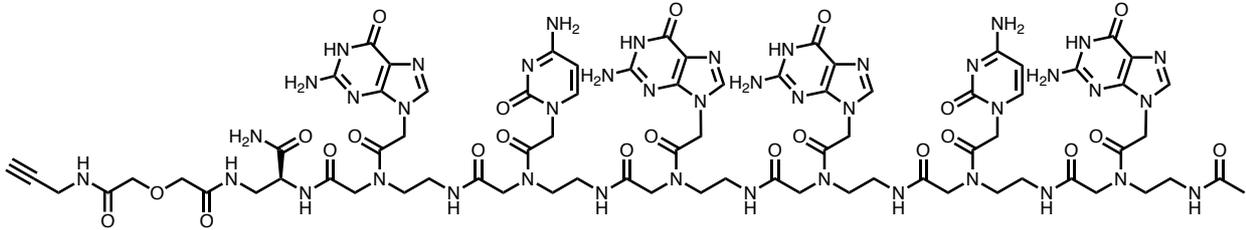
X10

Sequence: C#CCNC(=O)COCC(=O)N[DAP-GCGGCG]-NHAc

Chemical Formula: $C_{76}H_{96}N_{42}O_{23}$, Exact Mass: 1964.7633

LC-MS (ESI) RT = 1.12 min, m/z found: 983.75 $[M+2H]^{2+}$, 656.50 $[M+3H]^{3+}$; calc. 983.39 $[M+2H]^{2+}$, 655.93 $[M+3H]^{3+}$

MALDI-TOF m/z found 1965.91 $[M+H]^+$, 1987.90 $[M+Na]^+$; calc. 1965.77 $[M+H]^+$, 1987.75 $[M+Na]^+$

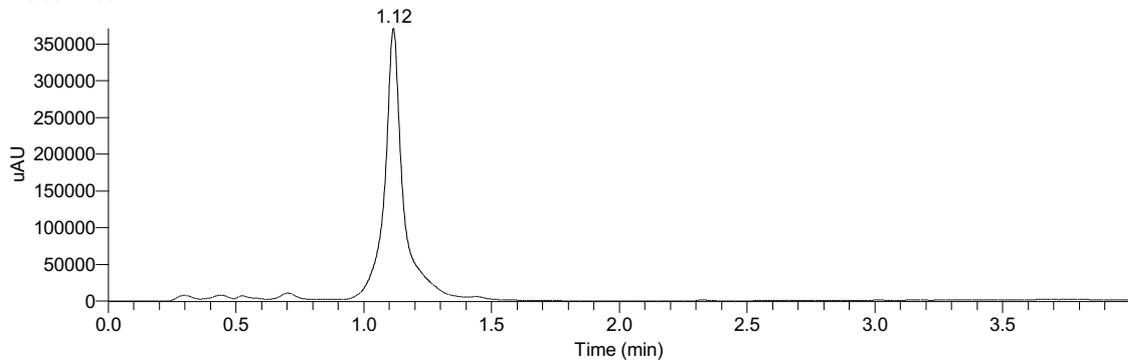


m/z: 1964.76 (100.0%), 1965.77 (84.2%), 1966.77 (39.9%)

ak_5_7_x5_aftercl_h2o

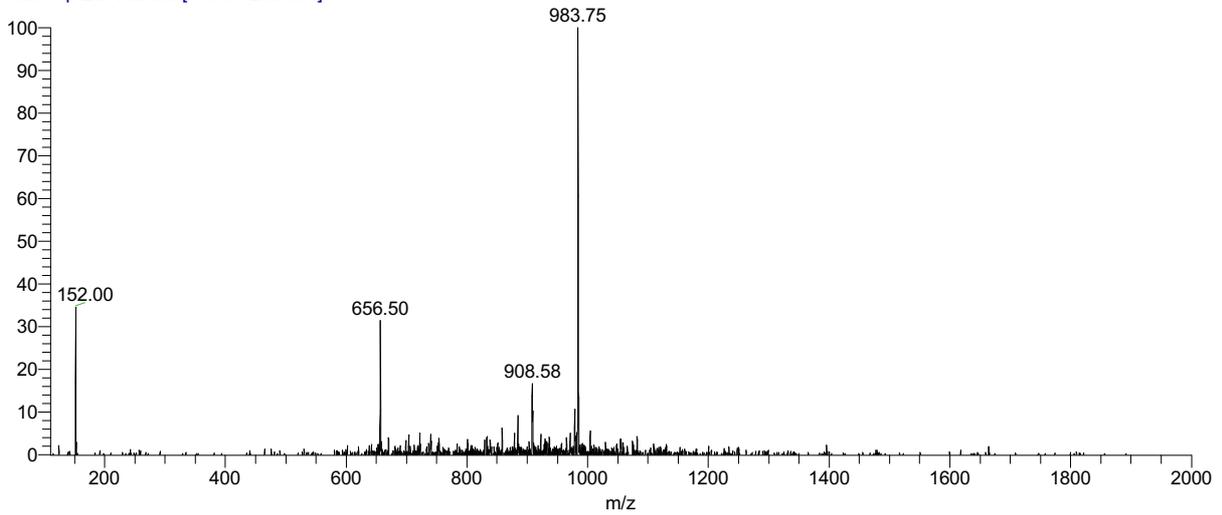
19/06/2023 22:45:30

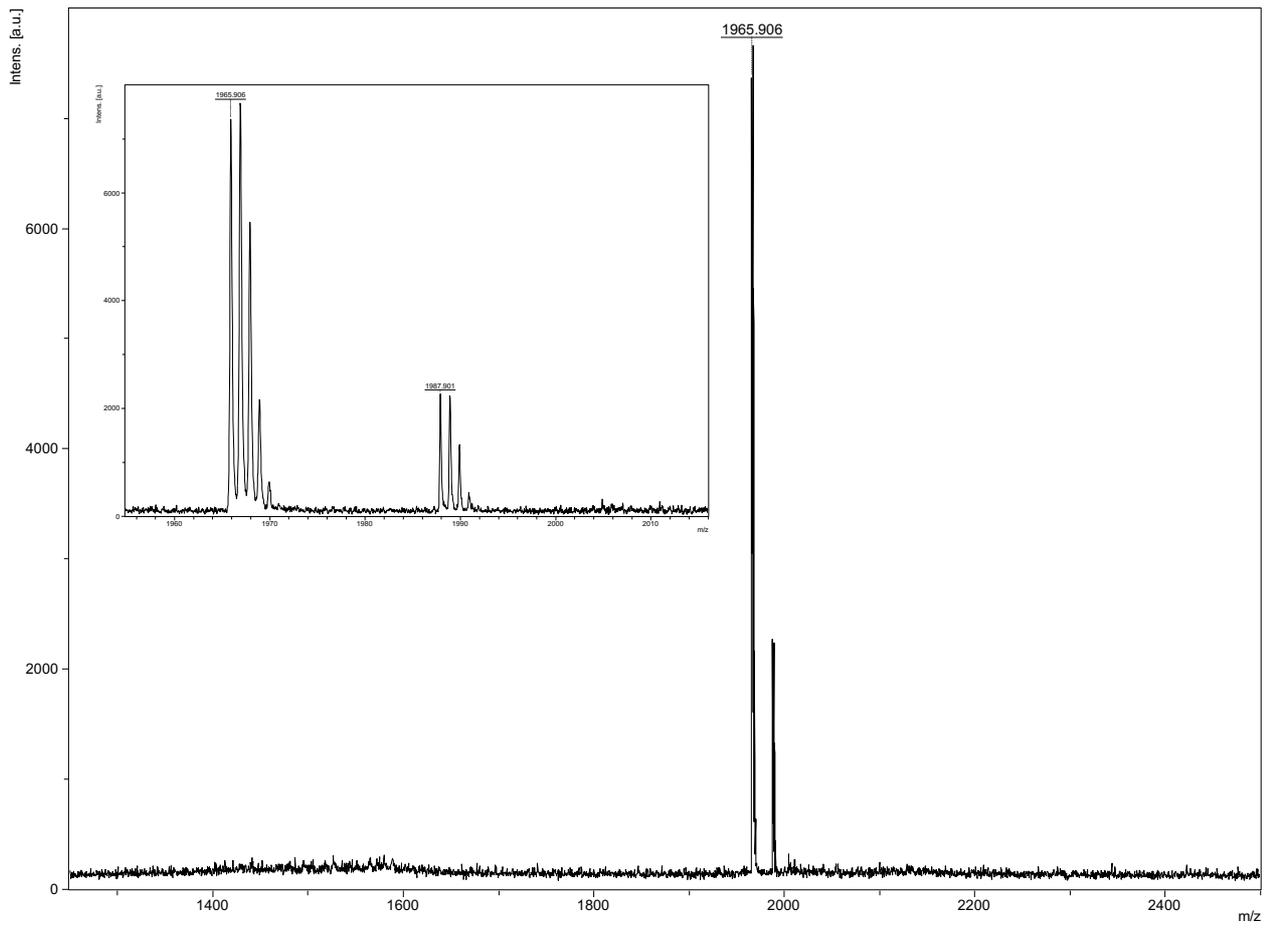
RT: 0.00 - 4.00



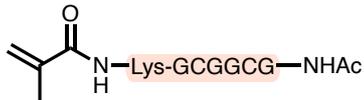
NL:
3.71E5
nm=259.5-
260.5 PDA
ak_5_7_x5_
aftercl_h2o

ak_5_7_x5_aftercl_h2o #66 RT: 1.11 AV: 1 NL: 4.43E2
T: ITMS + p ESI Full ms [110.00-2000.00]





X11



Sequence:

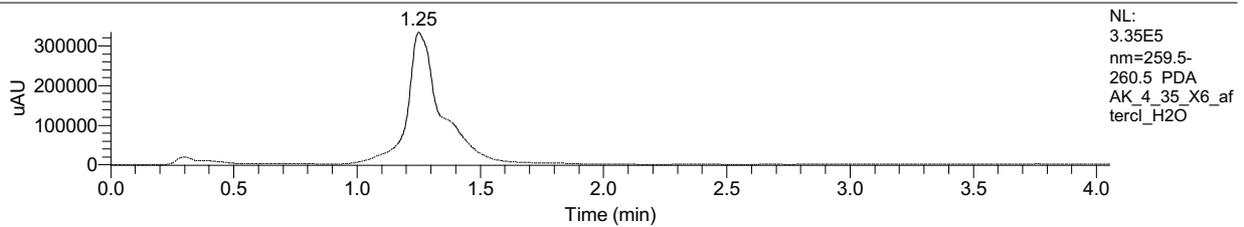
Chemical Formula: $C_{76}H_{99}N_{41}O_{21}$, Exact Mass: 1921.79

LC-MS (ESI) RT = 1.25 min, m/z found: 962.42 $[M+2H]^{2+}$, 642.00 $[M+3H]^{3+}$; 961.90 $[M+2H]^{2+}$, 641.61 $[M+3H]^{3+}$

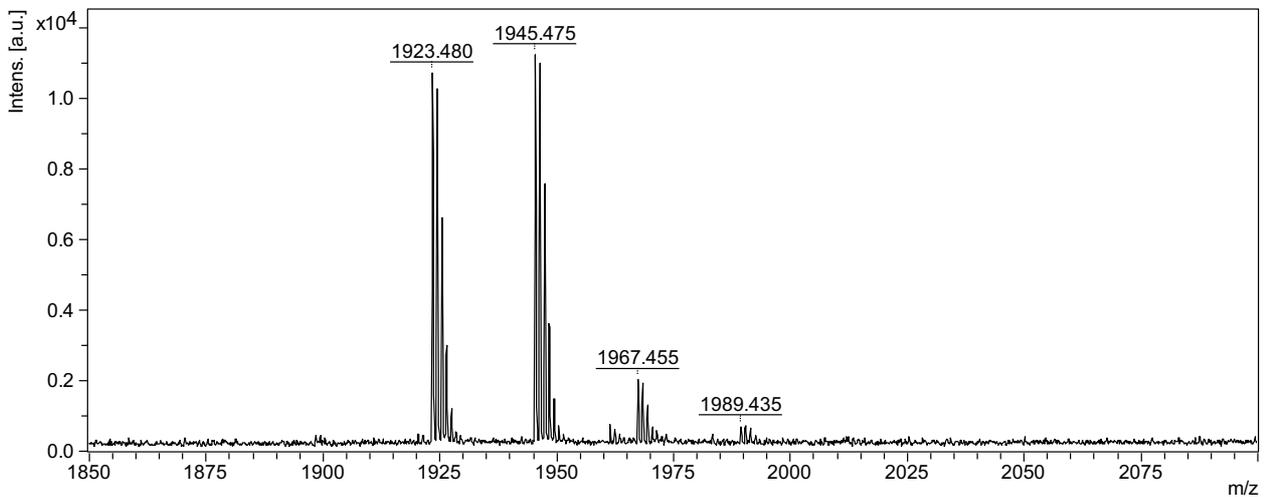
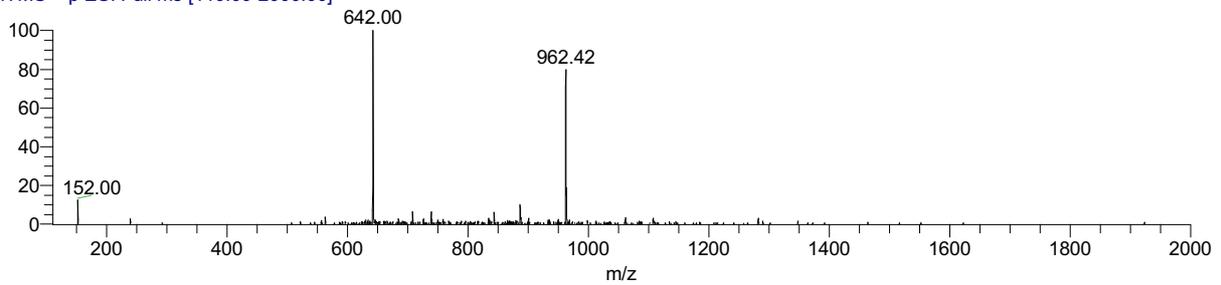
MALDI-TOF m/z found 1923.48 $[M+H]^+$, 1945.48 $[M+Na]^+$; calc 1922.80 $[M+H]^+$, 1944.78 $[M+Na]^+$

AK_4_35_X6_aftercl_H2O

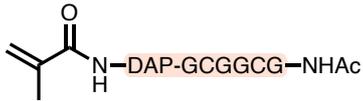
02/05/2023 19:09:20



AK_4_35_X6_aftercl_H2O #74 RT: 1.25 AV: 1 NL: 1.10E3
T: ITMS + p ESI Full ms [110.00-2000.00]



X12

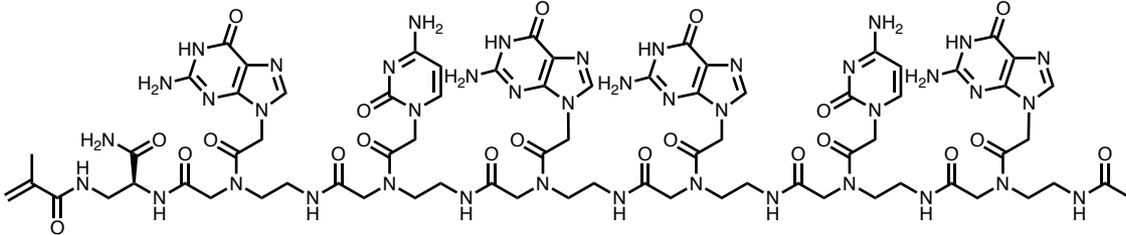


Sequence:

Chemical Formula: $C_{73}H_{93}N_{41}O_{21}$, Exact Mass: 1879.7470,

LC-MS (ESI) RT = 1.20 min, m/z found: 941.08 $[M+2H]^{2+}$, 628.08 $[M+3H]^{3+}$; calc. 940.88 $[M+2H]^{2+}$, 627.59 $[M+3H]^{3+}$

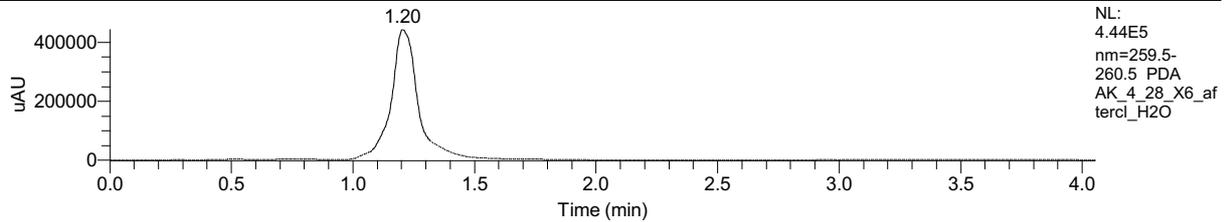
MALDI-TOF m/z found 1881.25 $[M+H]^+$, 1903.27 $[M+Na]^+$; calc. 1880.75 $[M+H]^+$, 1902.74 $[M+Na]^+$



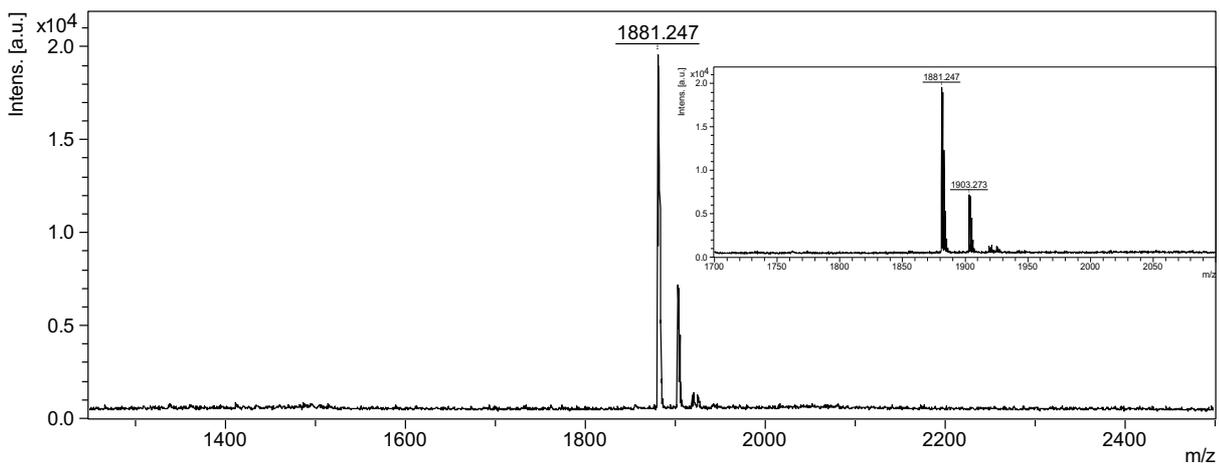
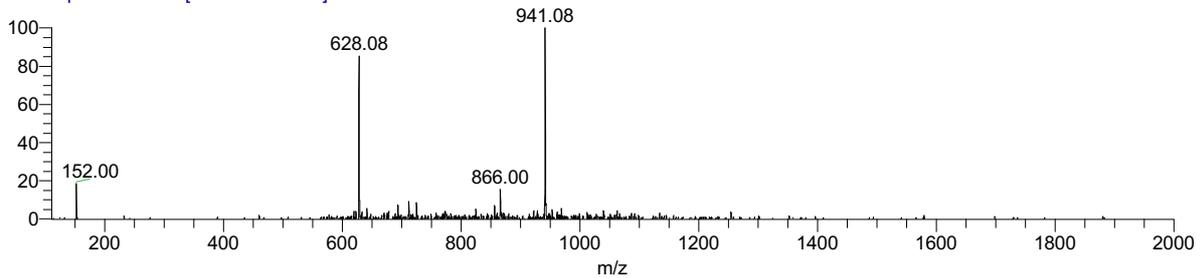
m/z: 1879.75 (100.0%), 1880.75 (80.8%), 1881.75 (47.9%)

AK_4_28_X6_aftercl_H2O

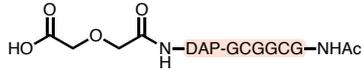
02/05/2023 19:03:01



AK_4_28_X6_aftercl_H2O #71 RT: 1.20 AV: 1 NL: 7.75E2
T: ITMS + p ESI Full ms [110.00-2000.00]



X13

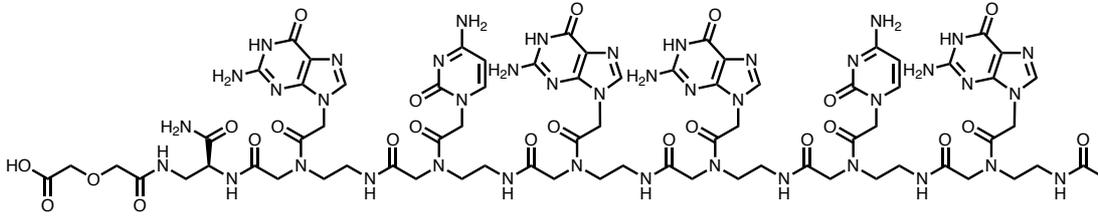


Sequence:

Chemical Formula: C₇₃H₉₃N₄₁O₂₄ Exact Mass: 1927.73,

LC-MS (ESI) RT = 1.13 min, m/z found: 965.17 [M+2H]²⁺, 643.92 [M+3H]³⁺; calc. 964.87[M+2H]²⁺, 643.58 [M+3H]³⁺

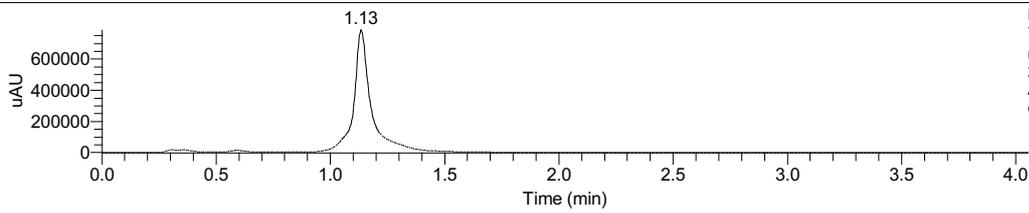
MALDI-TOF m/z found 1929.255 [M+H]⁺, 1951.274 [M+Na]⁺; calc. 1928.739 [M+H]⁺, 1950.721 [M+Na]⁺



m/z: 1927.73 (100.0%), 1928.74 (80.9%), 1929.74 (37.4%)

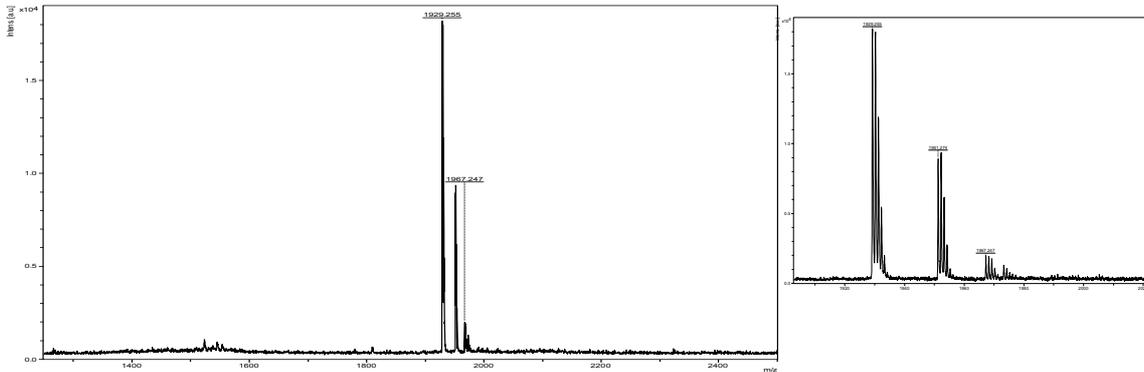
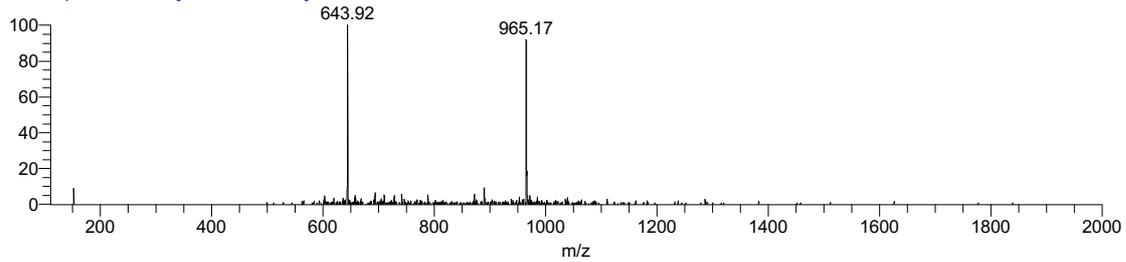
AK_3_36_3_aftercl_H2o

02/05/2023 22:48:07

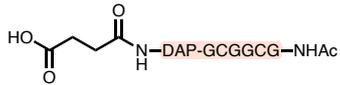


NL:
7.87E5
nm=259.5-
260.5 PDA
AK_3_36_3_aft
ercl_H2o

AK_3_36_3_aftercl_H2o#67 RT: 1.13 AV: 1 NL: 7.15E2
T: ITMS + p ESI Full ms [110.00-2000.00]



X14

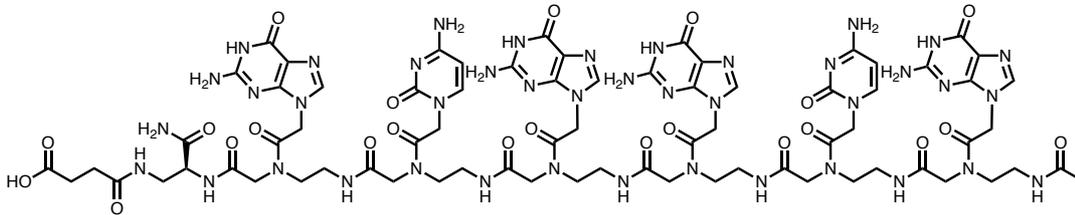


Sequence:

Chemical Formula: C₇₃H₉₃N₄₁O₂₃ Exact Mass: 1911.74

LC-MS (ESI) RT = 1.08 min, m/z found: 957.17 [M+2H]²⁺, 638.67 [M+3H]³⁺; calc. 956.88 [M+2H]²⁺, 638.25 [M+3H]³⁺

MALDI-TOF m/z found 1912.827 [M+H]⁺, 1934.844 [M+Na]⁺; calc. 1912.744 [M+H]⁺, 1934.726 [M+Na]⁺

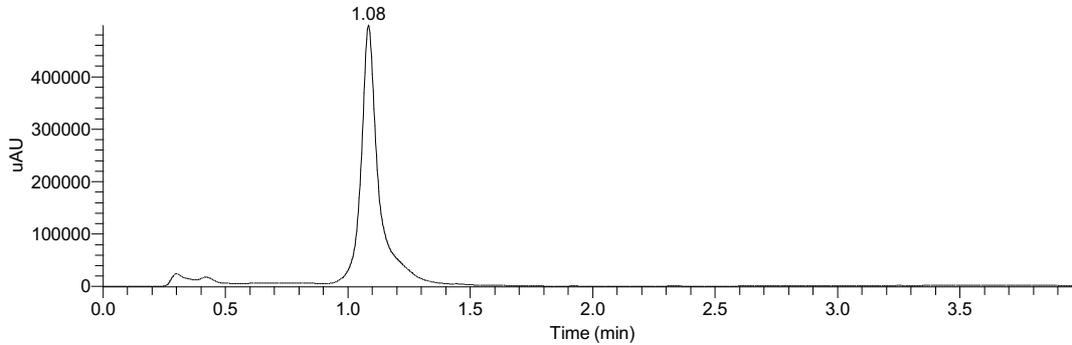


m/z: 1911.74 (100.0%), 1912.74 (80.9%), 1913.74 (48.4%)

AK_3_36_4_aftercl_H2O

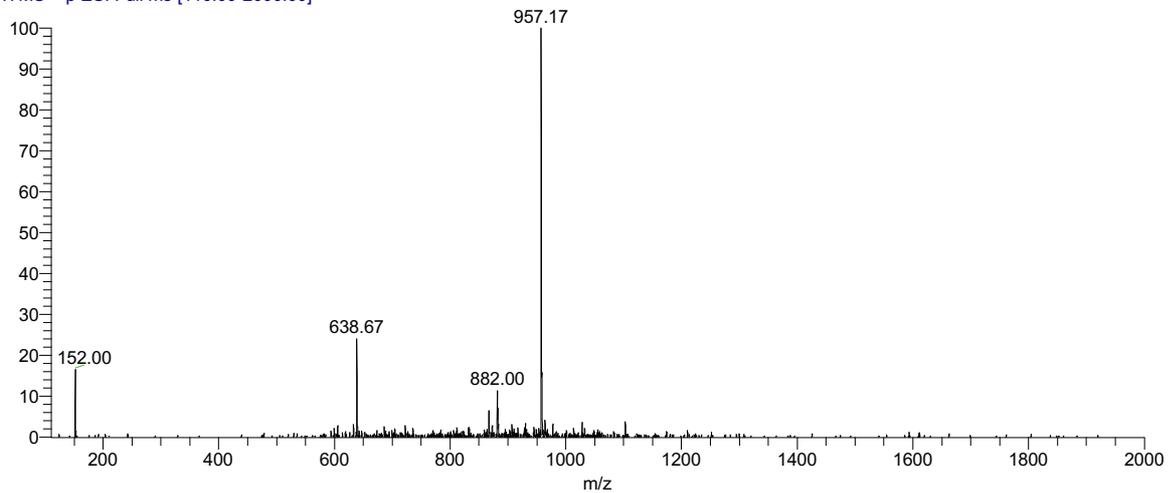
19/06/2023 12:17:29

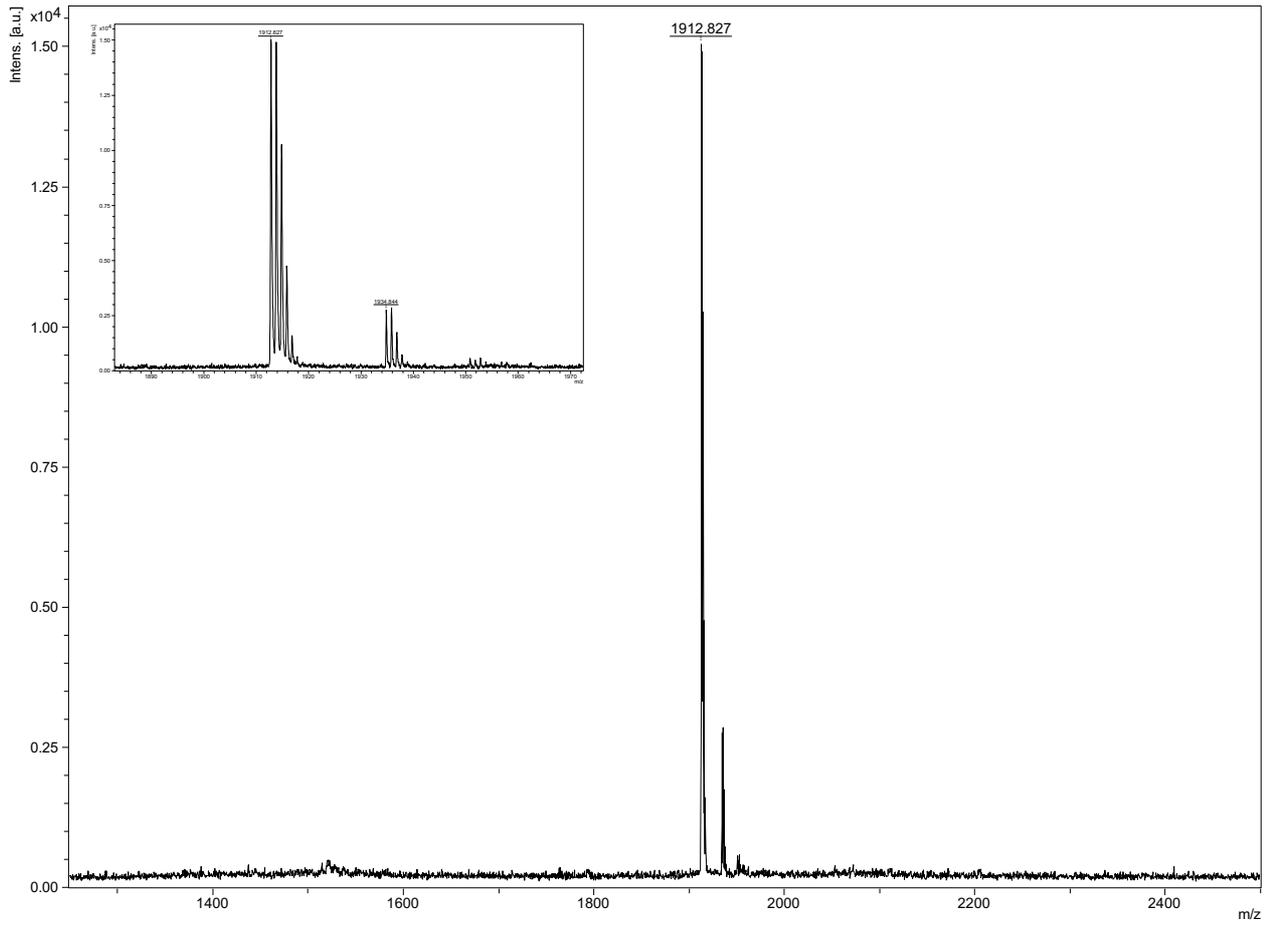
RT: 0.00 - 4.00



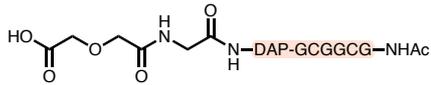
NL:
4.98E5
nm=259.5-
260.5 PDA
AK_3_36_4
_aftercl_H2
O

AK_3_36_4_aftercl_H2O #64 RT: 1.08 AV: 1 NL: 6.96E2
T: ITMS + p ESI Full ms [110.00-2000.00]





X15

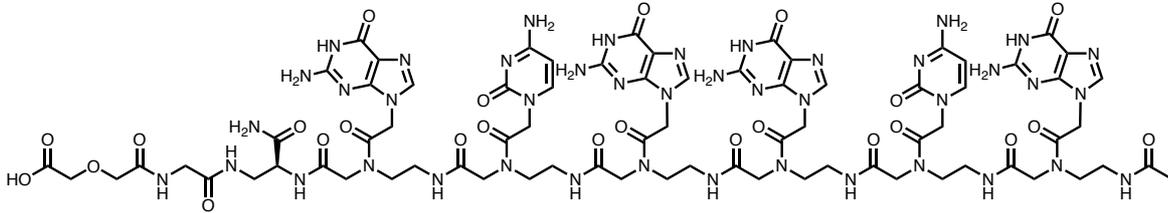


Sequence:

Chemical Formula: $C_{75}H_{96}N_{42}O_{25}$ Exact Mass: 1984.75

LC-MS (ESI) RT = 1.08 min, m/z found: 994.00 $[M+2H]^{2+}$, 662.92 $[M+3H]^{3+}$; calc. 993.38 $[M+2H]^{2+}$, 662.59 $[M+3H]^{3+}$

MALDI-TOF m/z found 1985.93 $[M+H]^+$, 2007.94 $[M+Na]^+$; calc. 1985.76 $[M+H]^+$, 2007.74 $[M+Na]^+$

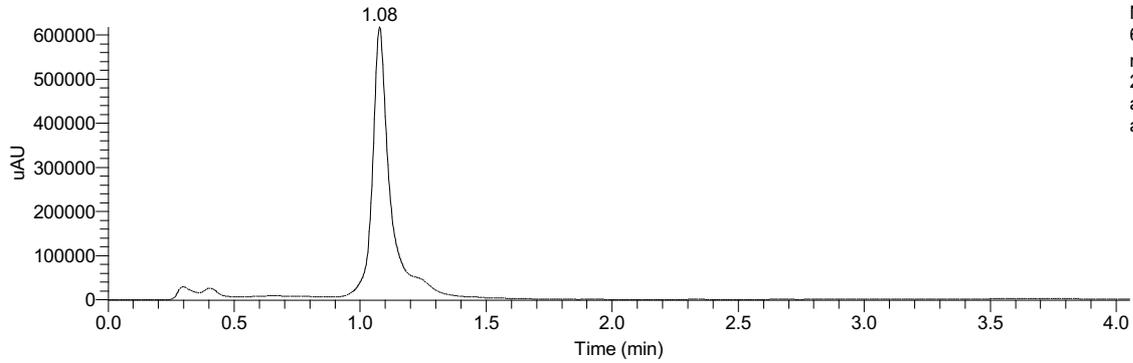


m/z: 1984.75 (100.0%), 1985.76 (83.2%), 1986.76 (39.5%)

[ak_3_36_5_aftercl_h2o](#)

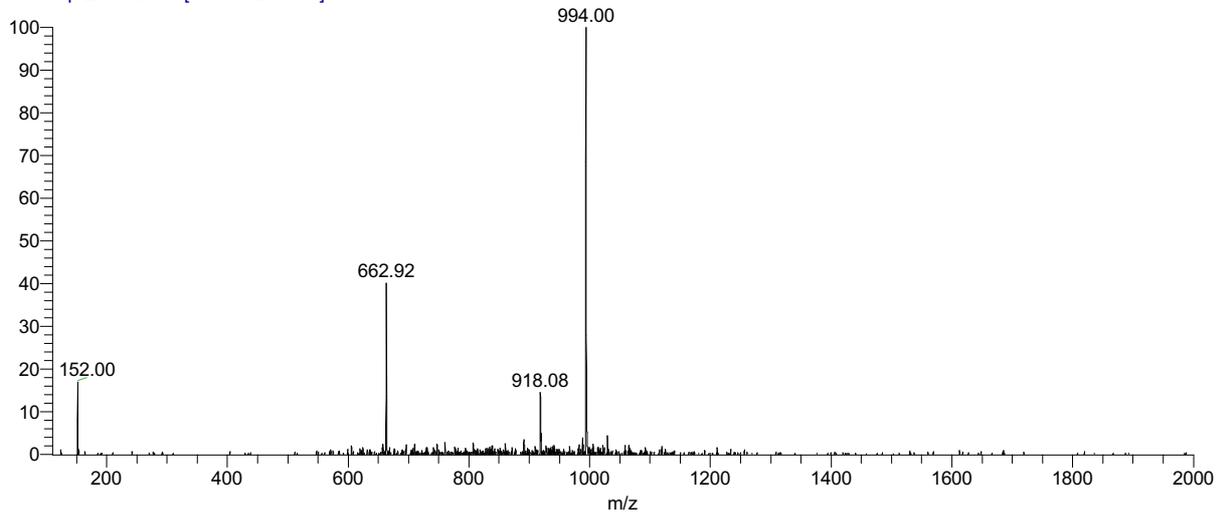
19/06/2023 12:30:07

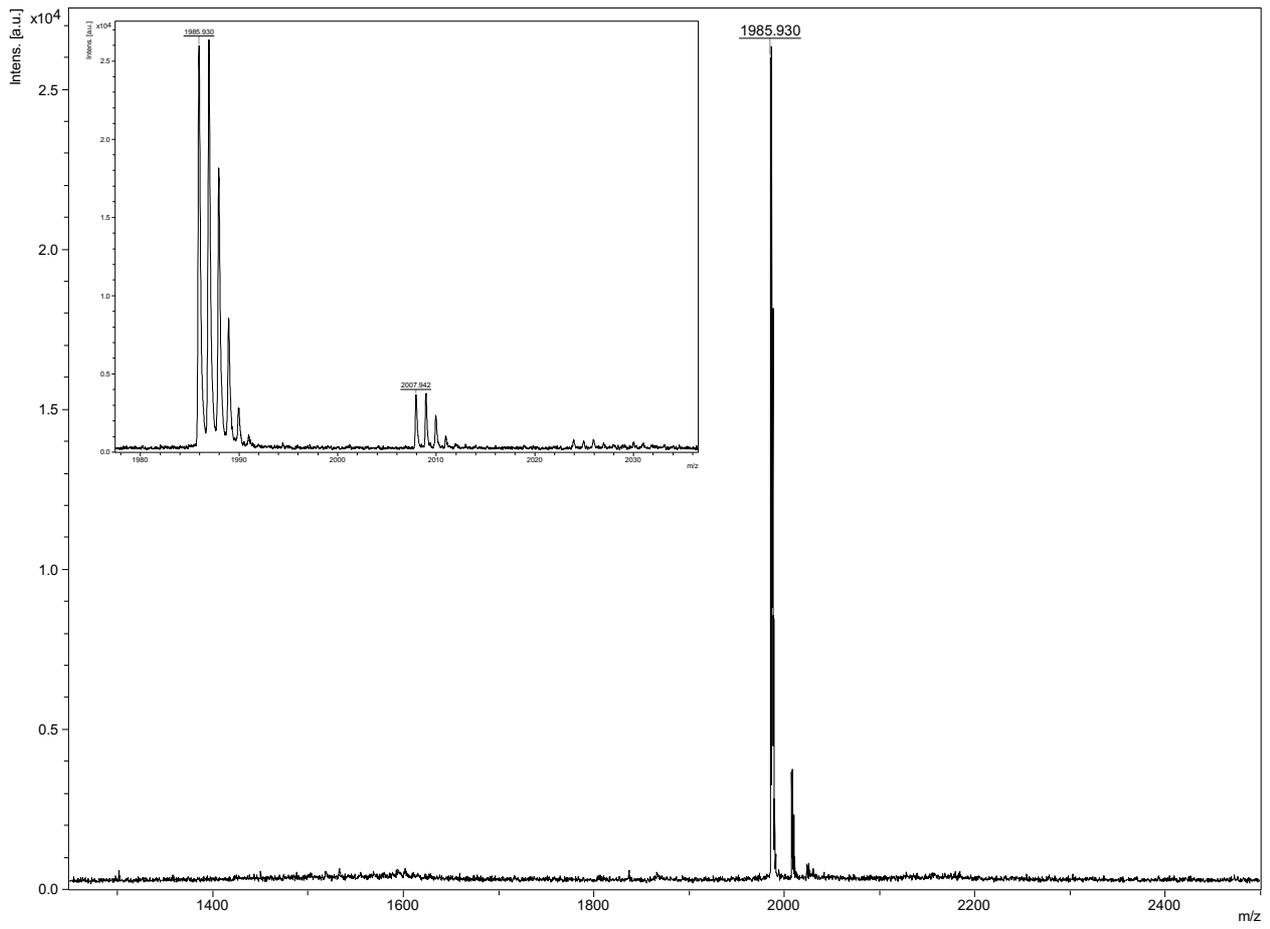
RT: 0.00 - 4.05

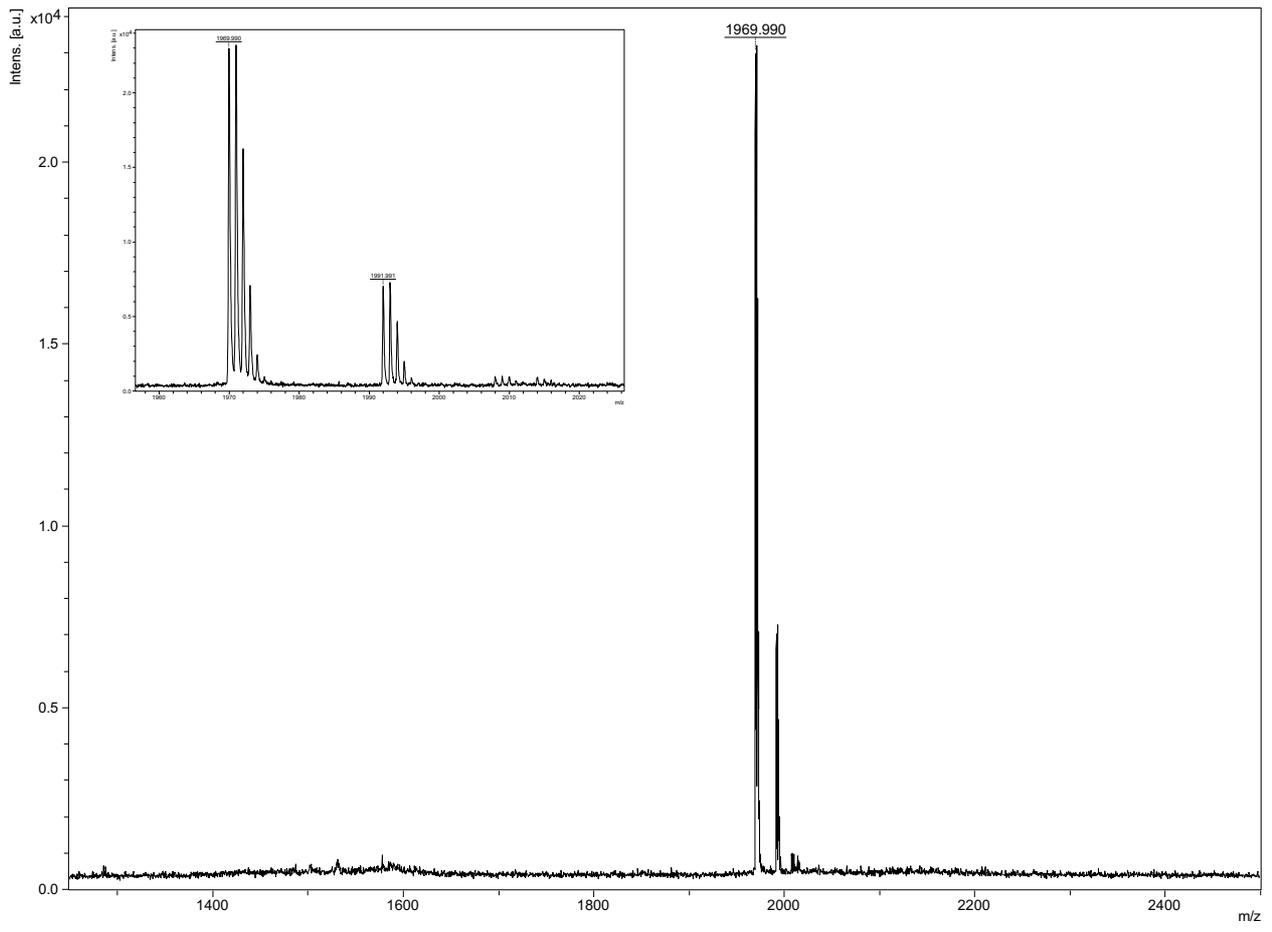


NL:
6.18E5
nm=259.5-
260.5 PDA
ak_3_36_5_
aftercl_h2o

[ak_3_36_5_aftercl_h2o #64](#) RT: 1.08 AV: 1 NL: 9.18E2
T: ITMS + p ESI Full ms [110.00-2000.00]







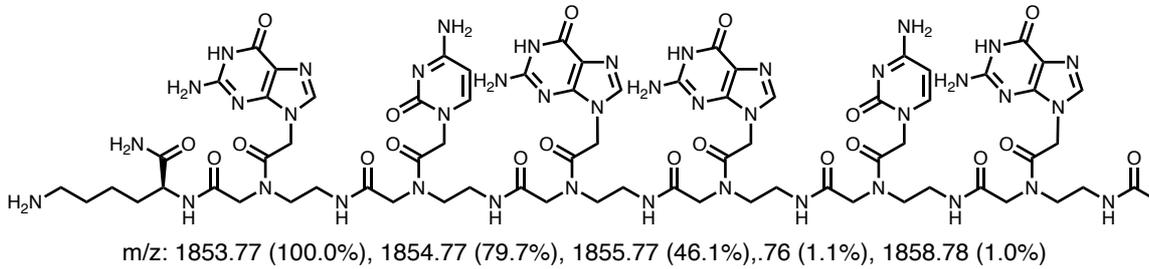
X17

Sequence: H₂N—Lys-GCGGCG—NHAc

Chemical Formula: C₇₂H₉₅N₄₁O₂₀ Exact Mass: 1853.77

LC-MS (ESI) RT = 0.99 min, m/z found: 928.25 [M+2H]²⁺, 619.50 [M+3H]³⁺; calc. 927.89 [M+2H]²⁺, 618.93 [M+3H]³⁺

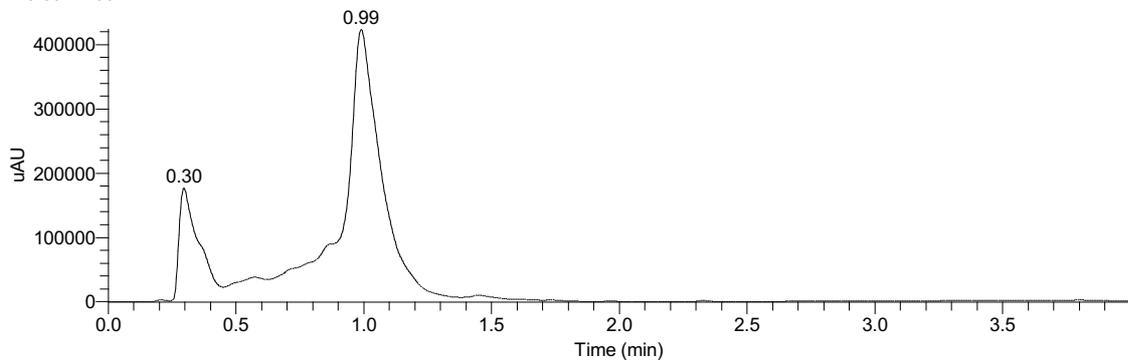
MALDI-TOF m/z found 1855.13 [M+H]⁺, 1877.11 [M+Na]⁺; calc. 1854.78 [M+H]⁺, 1876.76 [M+Na]⁺



ak_4_31_b'_aftercl_h2o

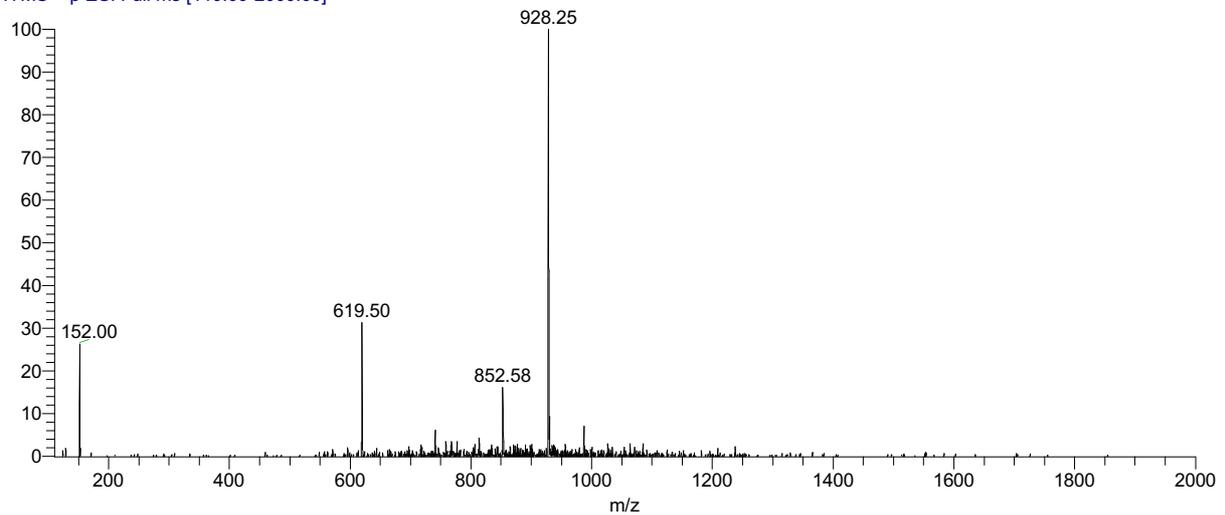
19/06/2023 14:05:37

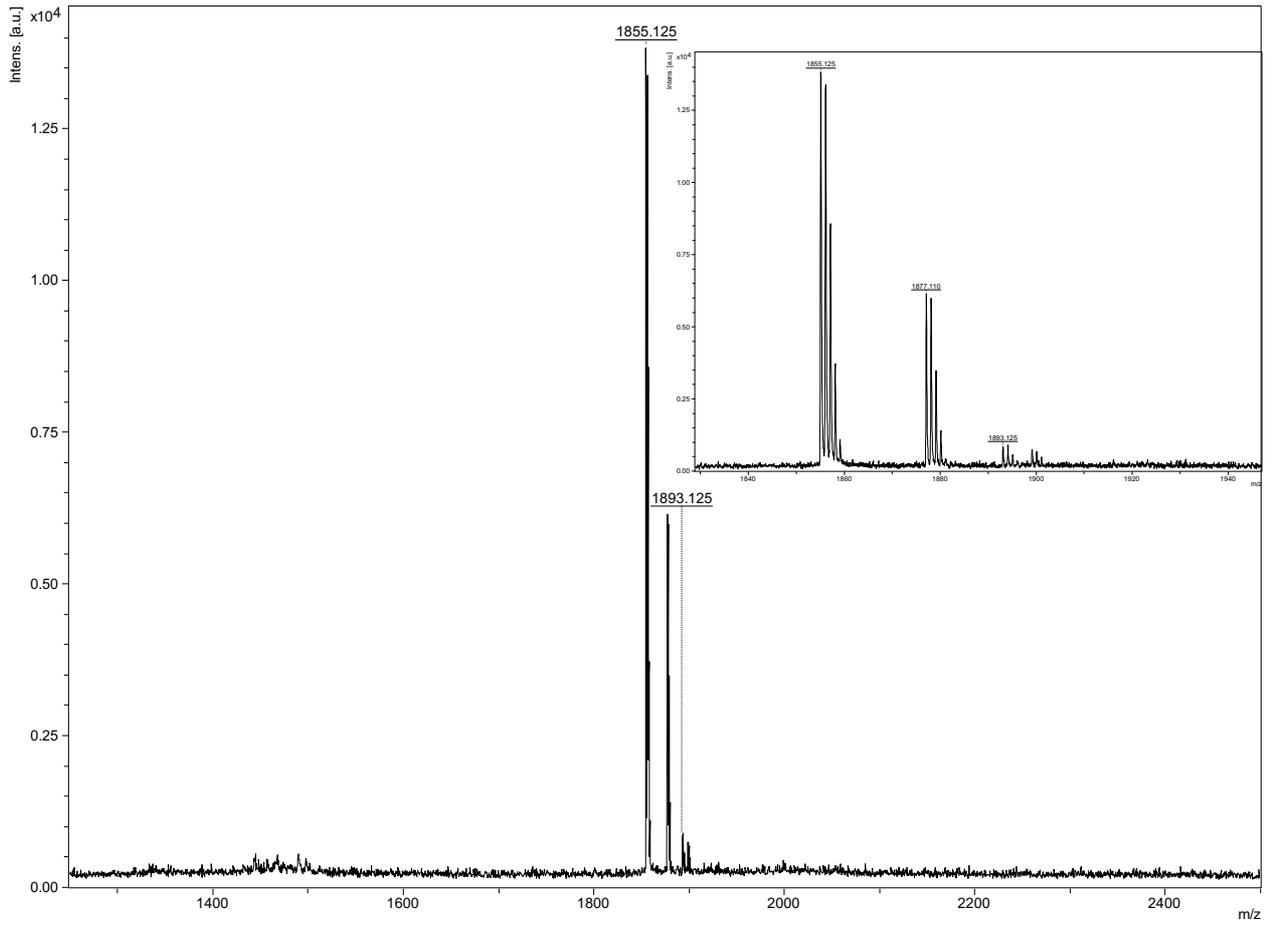
RT: 0.00 - 4.00



NL:
4.24E5
nm=259.5-
260.5 PDA
ak_4_31_b'
_aftercl_h2o

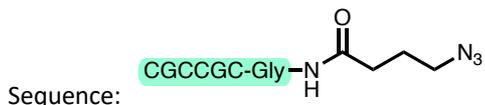
ak_4_31_b'_aftercl_h2o #59 RT: 0.99 AV: 1 NL: 7.56E2
T: ITMS + p ESI Full ms [110.00-2000.00]





Data of PNA_Y

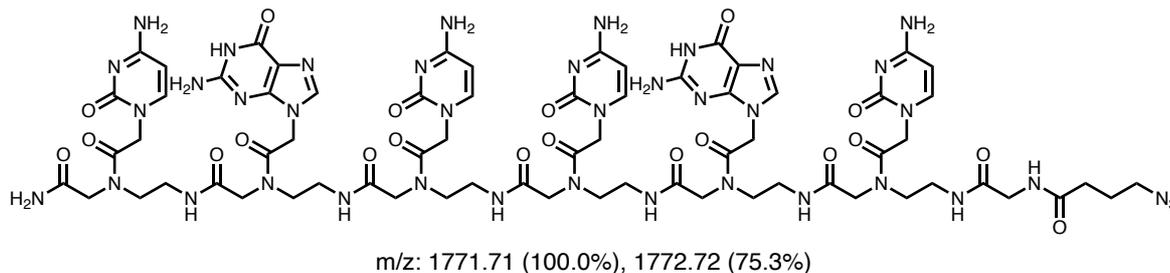
Y1



Chemical Formula: C₆₈H₈₉N₃₉O₂₀, Exact Mass: 1771.715

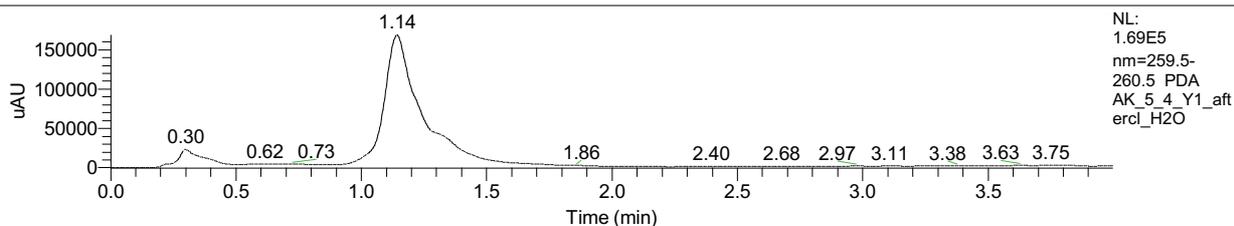
LC-MS (ESI) RT = 1.14 min, m/z found: 887.08 [M+2H]²⁺, 591.92 [M+3H]³⁺; calc. 886.86 [M+2H]²⁺, 591.59 [M+3H]³⁺

MALDI-TOF m/z found 1772.81 [M+H]⁺, calc. 1772.72 [M+H]⁺



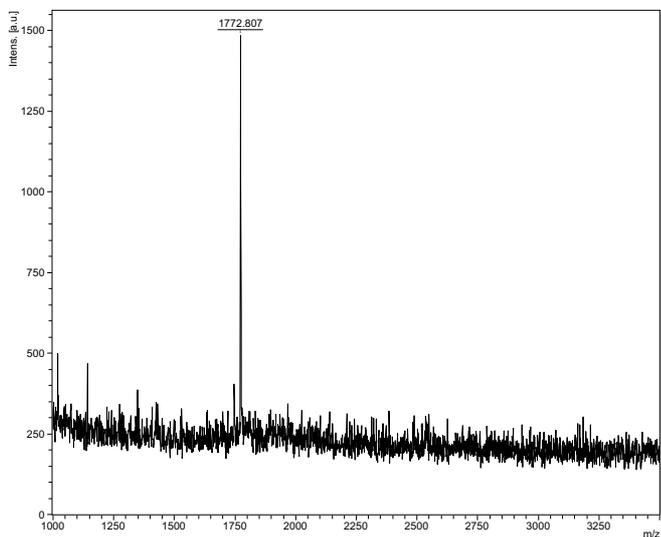
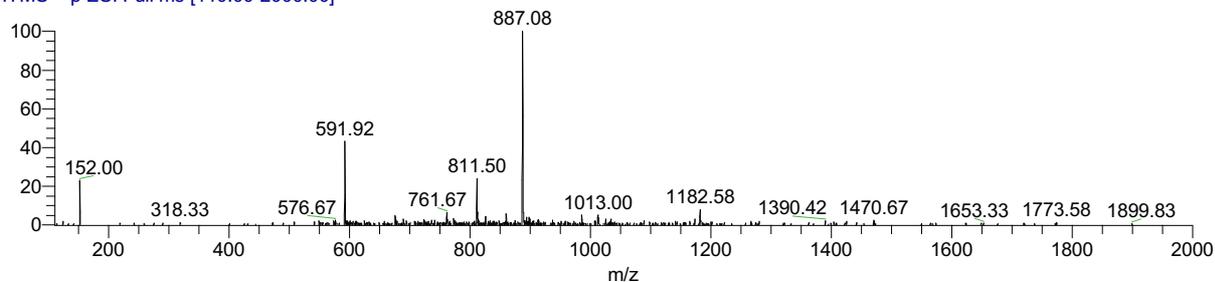
AK_5_4_Y1_aftercl_H2O

02/05/2023 15:09:03



AK_5_4_Y1_aftercl_H2O #68 RT: 1.15 AV: 1 NL: 3.38E2

T: ITMS + p ESI Full ms [110.00-2000.00]



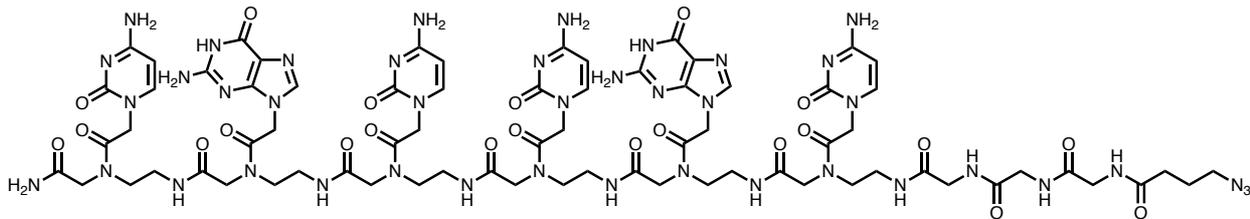
Y2



Chemical Formula: C₇₂H₉₅N₄₁O₂₂, Exact Mass: 1885.76

LC-MS (ESI) RT = 1.05 min, m/z found: 944.25 [M+2H]²⁺; calc. 943.89 [M+2H]²⁺

MALDI-TOF m/z found 1860.80 [M-N₂+3H]⁺, 1886.74 [M+H]⁺, 1908.76 [M+Na]⁺, 1924.73 [M+K]⁺; calc. 1860.77 [M-N₂+3H]⁺, 1886.76 [M+H]⁺, 1908.75 [M+Na]⁺, 1924.72 [M+K]⁺

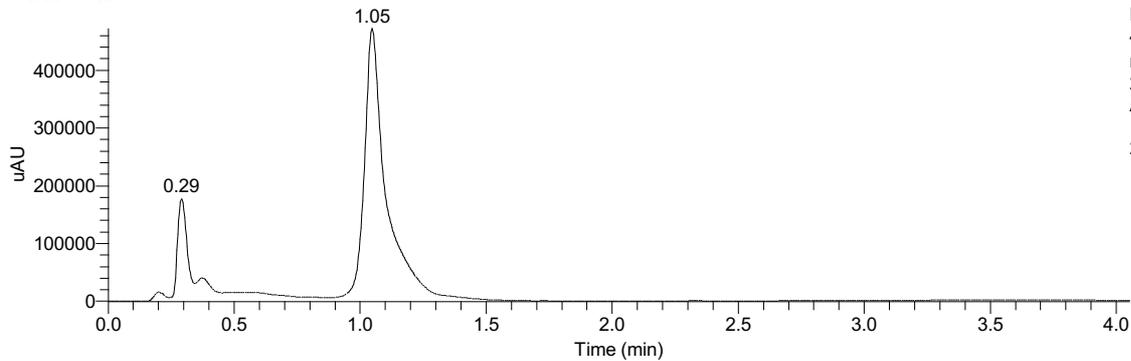


m/z: 1885.76 (100.0%), 1886.76 (79.8%), 1887.76 (46.5%)

AK_3_16_Y1_aftercl_H2O

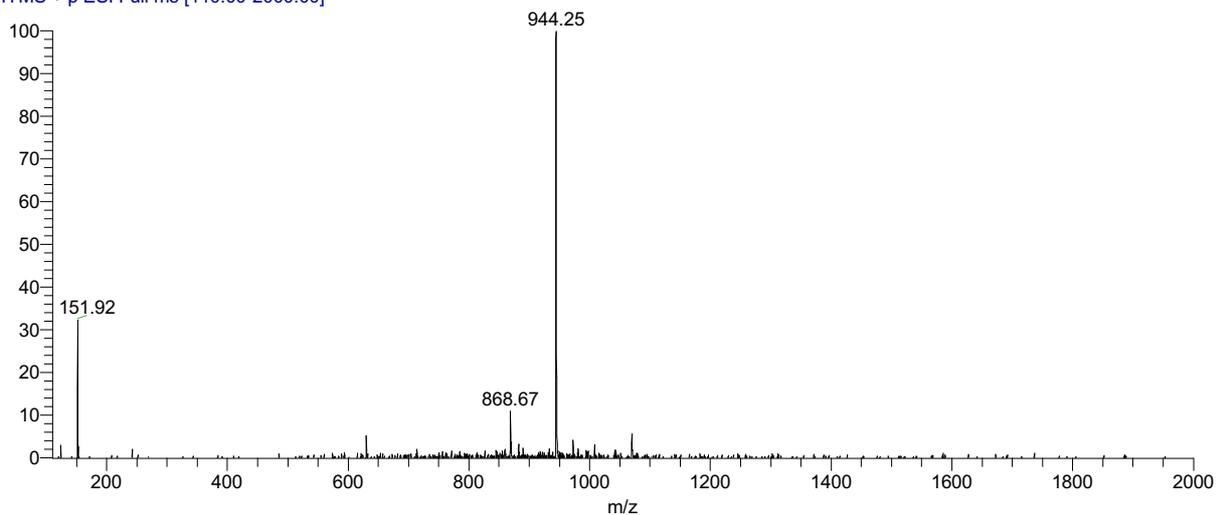
19/06/2023 15:15:57

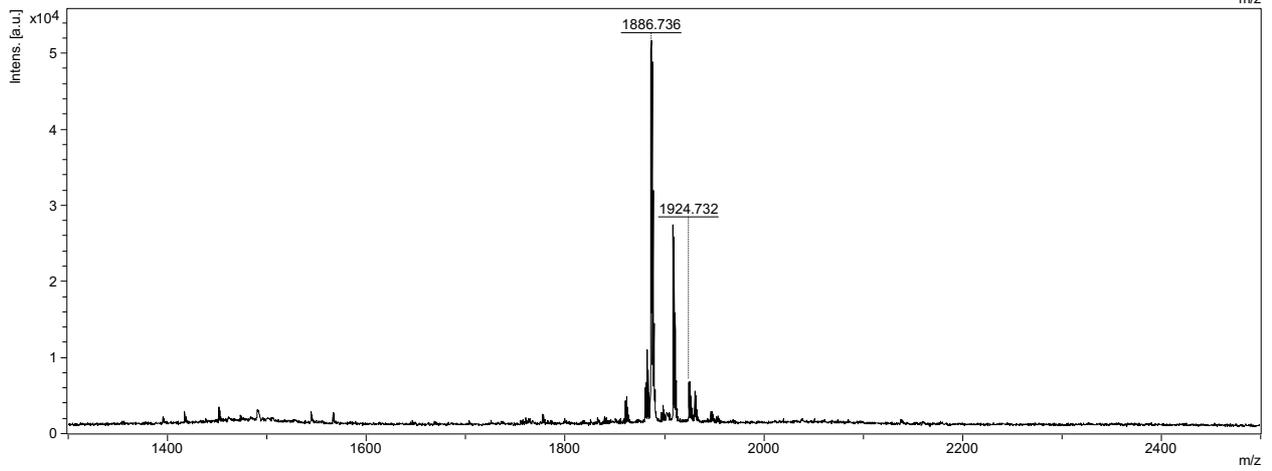
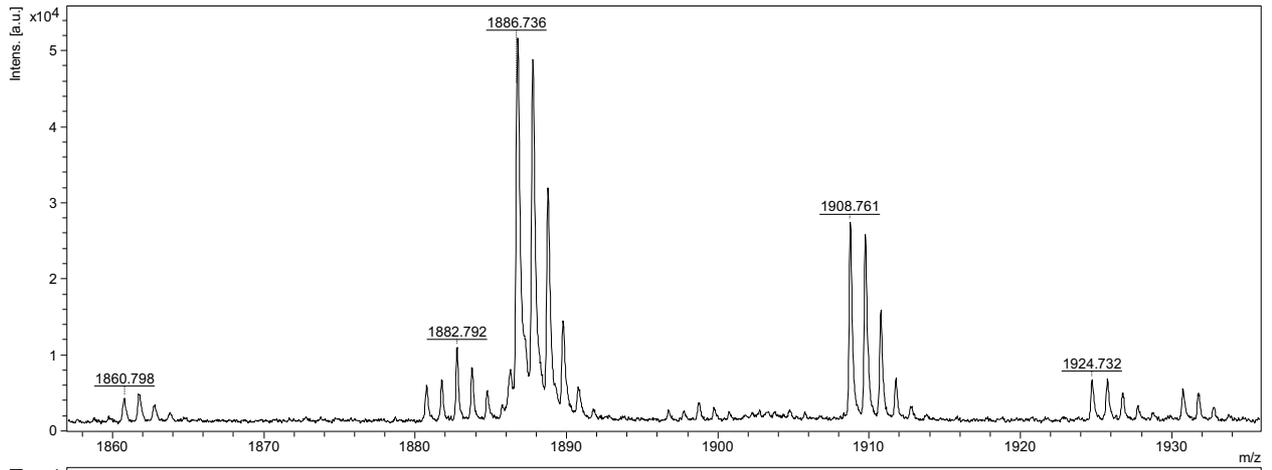
RT: 0.00 - 4.05



NL:
4.72E5
nm=259.5-
260.5 PDA
AK_3_16_Y
1_aftercl_H
2O

AK_3_16_Y1_aftercl_H2O #62 RT: 1.04 AV: 1 NL: 9.84E2
T: ITMS + p ESI Full ms [110.00-2000.00]





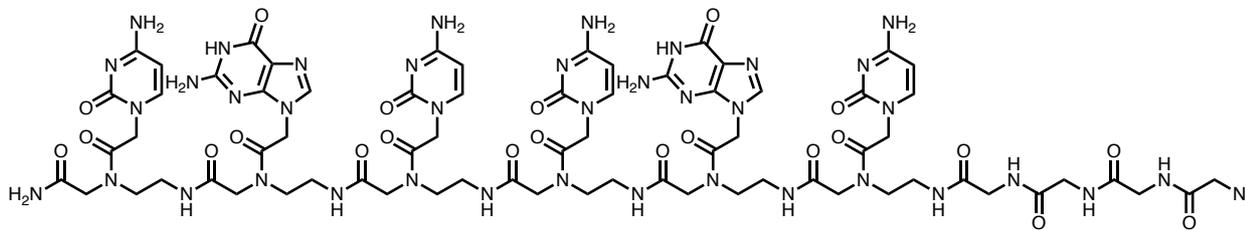
Y3



Chemical Formula: $C_{70}H_{91}N_{41}O_{22}$, Exact Mass: 1857.73

LC-MS (ESI) RT = 1.07 min, m/z found: 930.08 $[M+2H]^{2+}$, 620.58 $[M+3H]^{3+}$; calc. 929.87 $[M+2H]^{2+}$, 620.25 $[M+3H]^{3+}$

MALDI-TOF m/z found 1857.55 $[M+H]^+$; calc. 1857.73 $[M+H]^+$

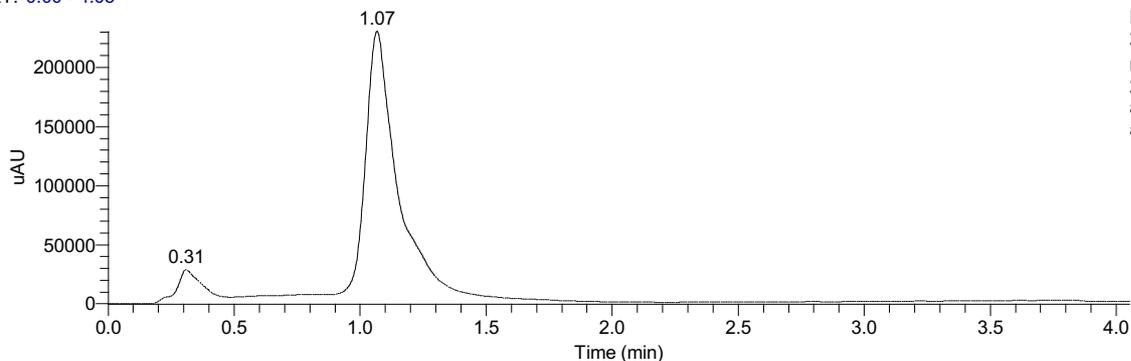


m/z: 1857.73 (100.0%), 1858.73 (77.6%), 1859.73 (45.2%)

ak_5_3_y2_aftercl_h2o

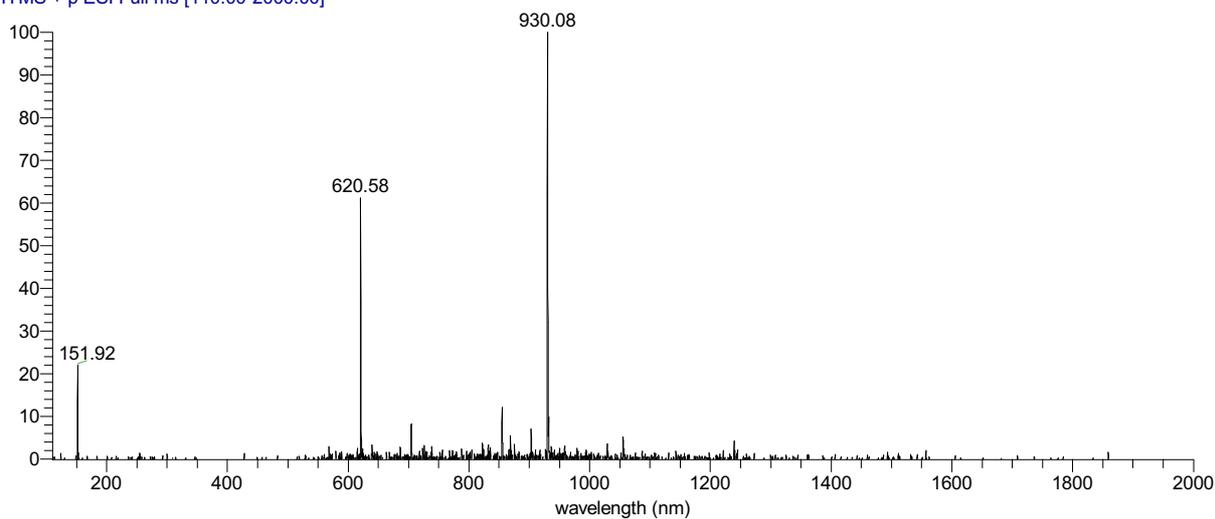
02/05/2023 15:22:00

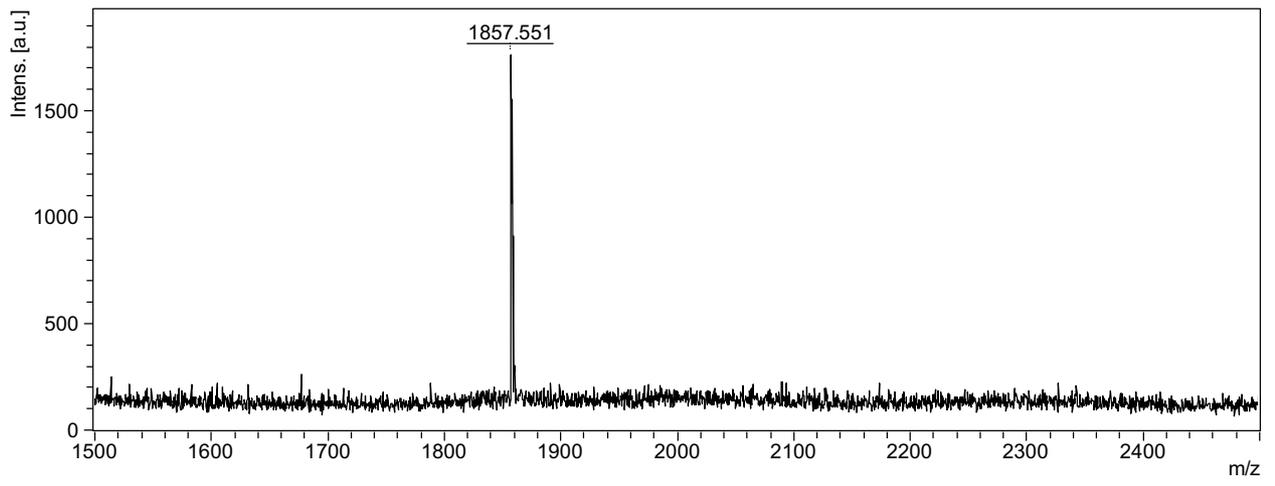
RT: 0.00 - 4.05



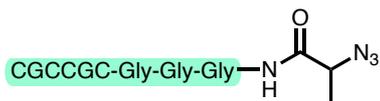
NL:
2.31E5
nm=259.5-
260.5 PDA
ak_5_3_y2_
aftercl_h2o

ak_5_3_y2_aftercl_h2o #63 RT: 1.06 AV: 1 NL: 3.34E2
T: ITMS + p ESI Full ms [110.00-2000.00]





Y4

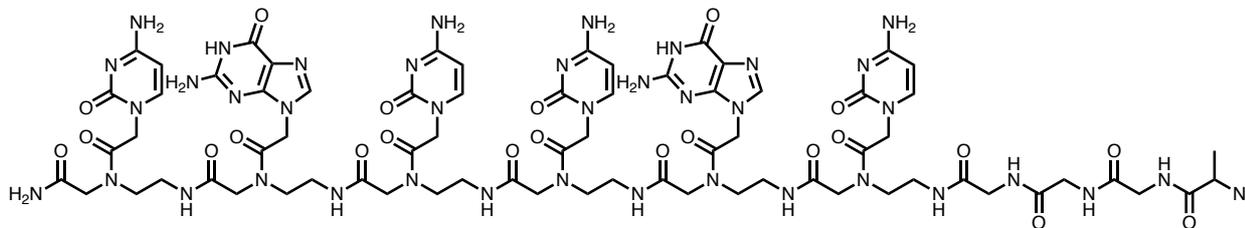


Sequence:

Chemical Formula: C₇₁H₉₃N₄₁O₂₂, Exact Mass: 1871.74

LC-MS (ESI) RT = 1.11 min, m/z found: 937.33 [M+2H]²⁺, 625.33 [M+3H]³⁺; calc. 936.88 [M+2H]²⁺, 624.92 [M+3H]³⁺

MALDI-TOF m/z found 1872.90 [M+H]⁺, 1846.90 [M-N₂+3H]⁺, 1894.89 [M+Na]⁺; calc. 1872.75 [M+H]⁺, 1846.76 [M-N₂+3H]⁺, 1894.73 [M+Na]⁺

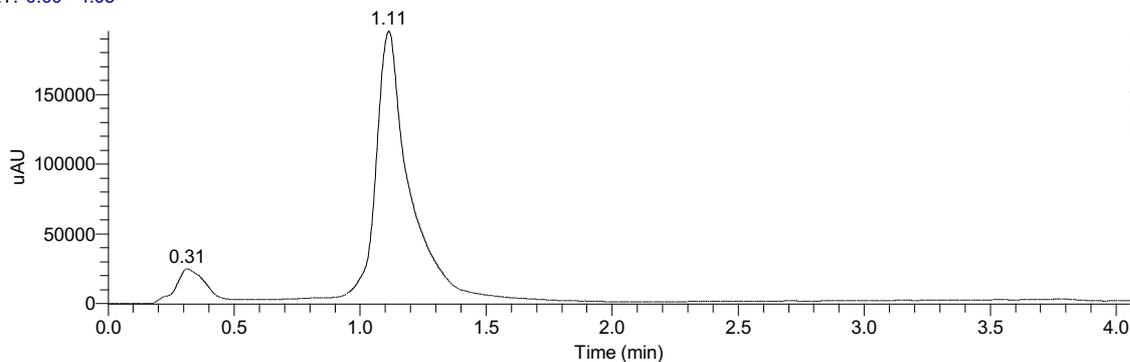


m/z: 1871.74 (100.0%), 1872.75 (78.7%)

ak_5_3_y4_aftercl_h2o

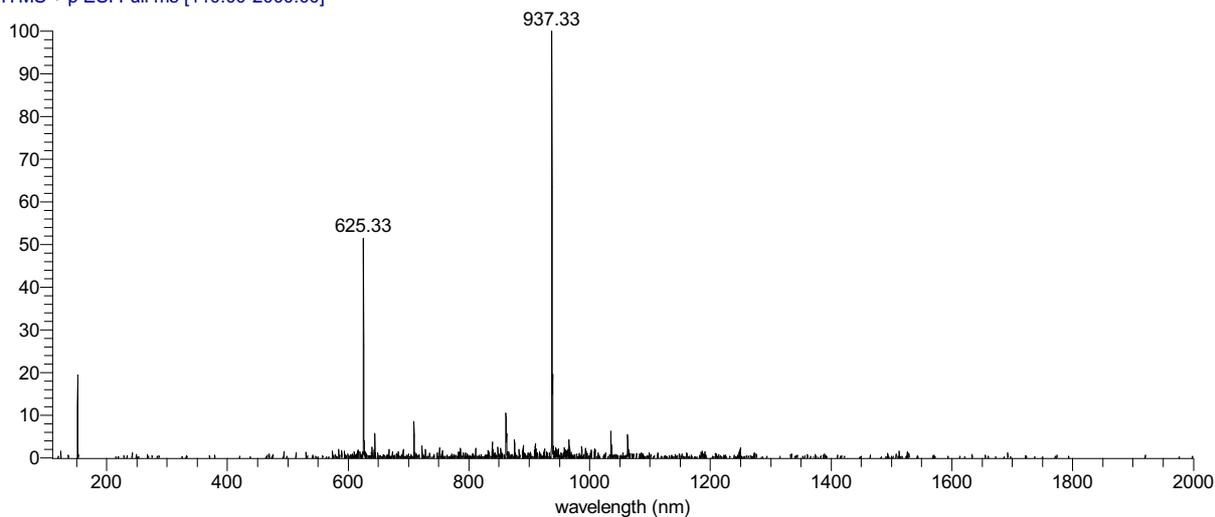
02/05/2023 16:27:20

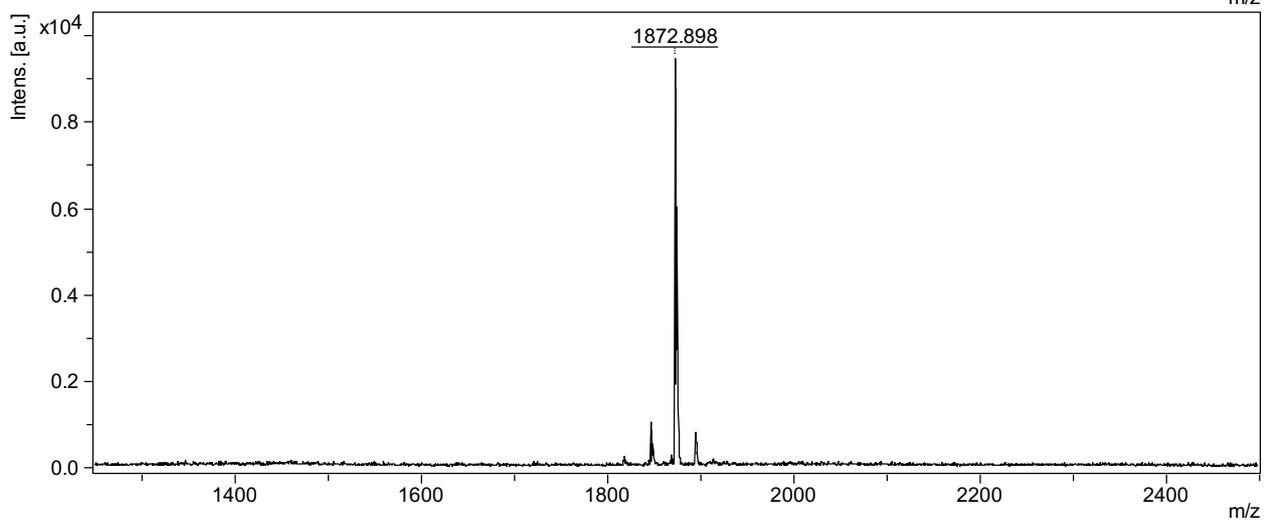
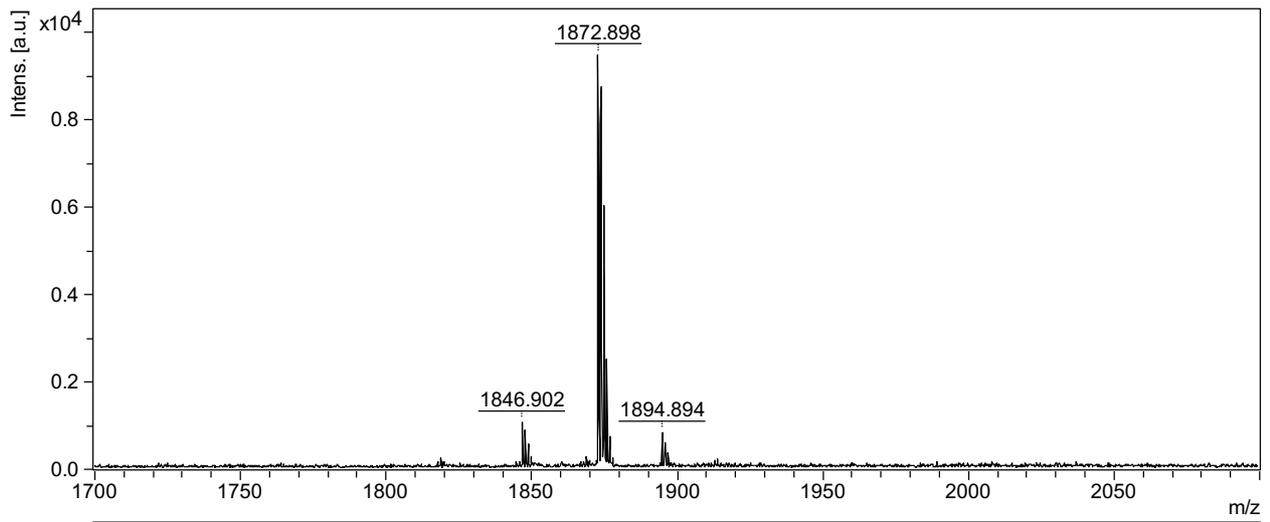
RT: 0.00 - 4.05



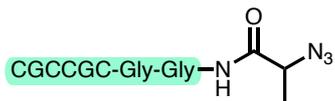
NL:
1.95E5
nm=259.5-
260.5 PDA
ak_5_3_y4_
aftercl_h2o

ak_5_3_y4_aftercl_h2o #66 RT: 1.11 AV: 1 NL: 4.15E2
T: ITMS + p ESI Full ms [110.00-2000.00]





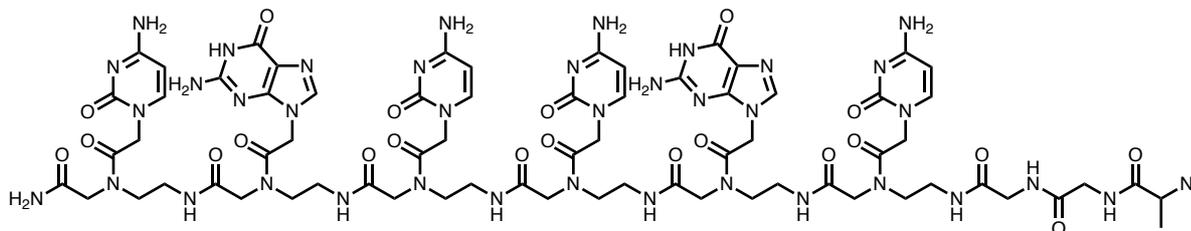
Y5



Chemical Formula: C₆₉H₉₀N₄₀O₂₁, Exact Mass: 1814.7204

LC-MS (ESI) RT = 1.06 min, m/z found: 908.67 [M+2H]²⁺; calc. 908.37 [M+2H]²⁺

MALDI-TOF m/z found 1815.50 [M+H]⁺; calc. 1815.73 [M+H]⁺

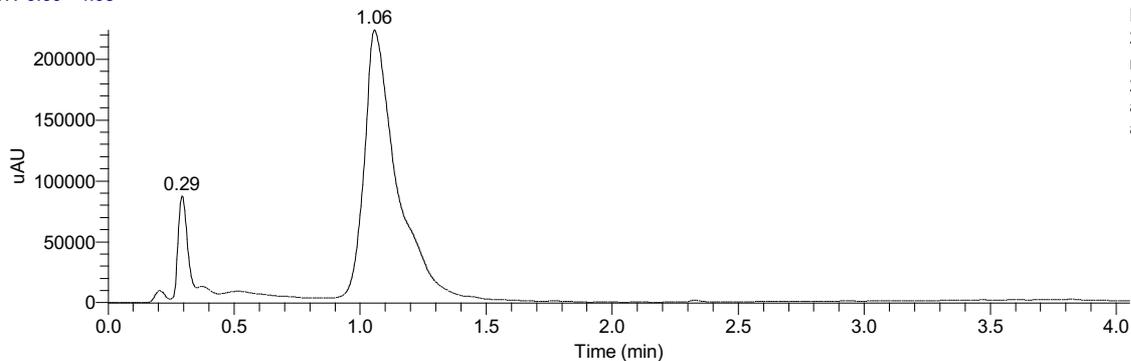


m/z: 1814.72 (100.0%), 1815.72 (90.2%), 1816.73 (28.8%)

ak_4_6_y4_aftercl_h2o

20/06/2023 00:01:08

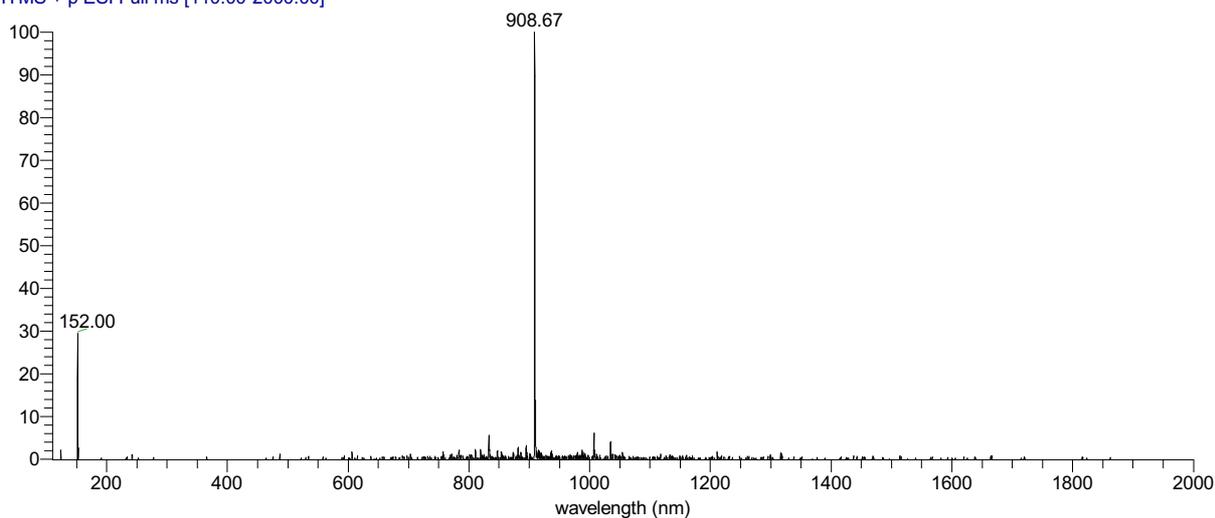
RT: 0.00 - 4.05

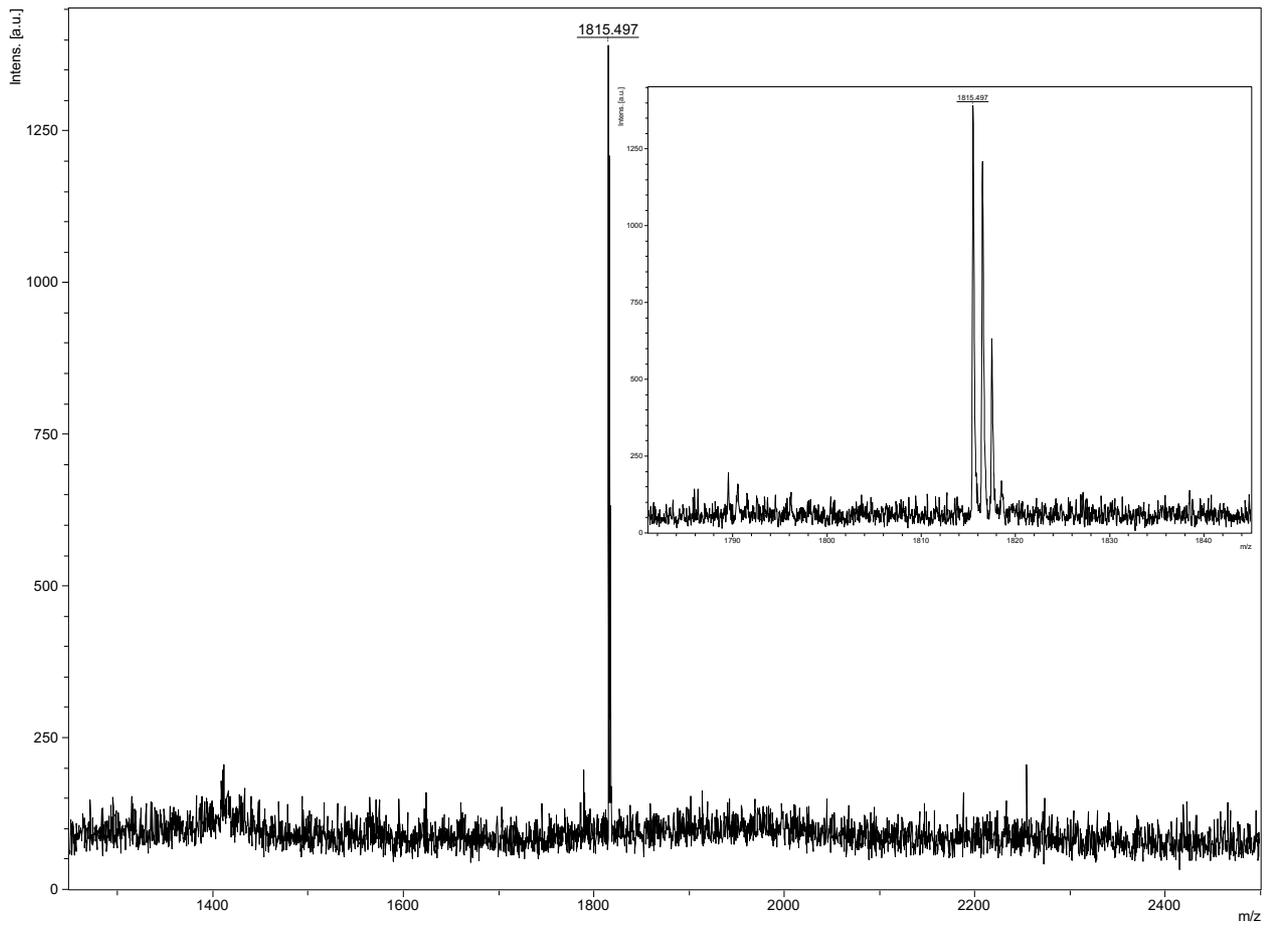


NL:
2.24E5
nm=259.5-
260.5 PDA
ak_4_6_y4_
aftercl_h2o

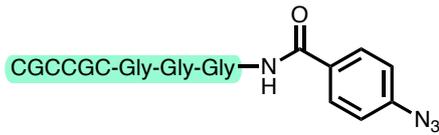
ak_4_6_y4_aftercl_h2o #63 RT: 1.06 AV: 1 NL: 6.78E2

T: ITMS + p ESI Full ms [110.00-2000.00]





Y6

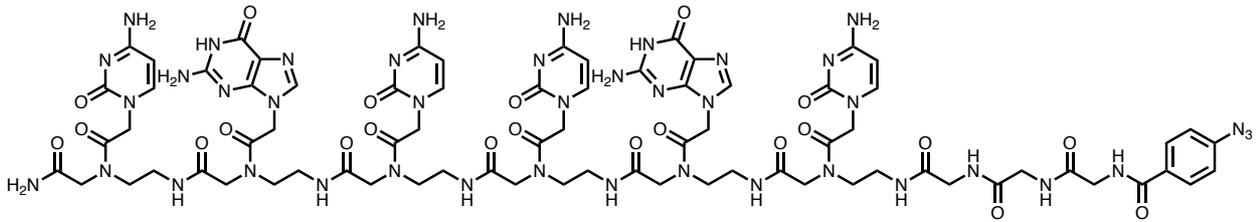


Sequence:

Chemical Formula: C₇₅H₉₃N₄₁O₂₂, Exact Mass: 1919.74

LC-MS (ESI) RT = 1.26 min, m/z found: 961.25 [M+2H]²⁺, 641.08 [M+3H]³⁺; calc. 960.88 [M+2H]²⁺, 640.92 [M+3H]³⁺

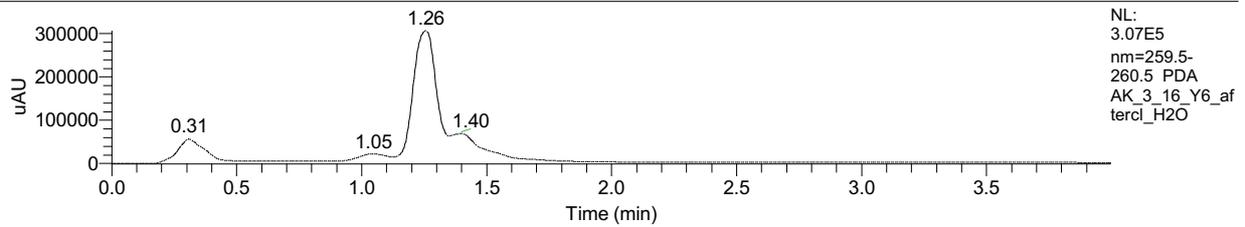
MALDI-TOF m/z found 1895.12 [M-N2+3H]⁺; calc. 1894.76 [M-N2+3H]⁺



m/z: 1919.74 (100.0%), 1920.75 (83.0%)

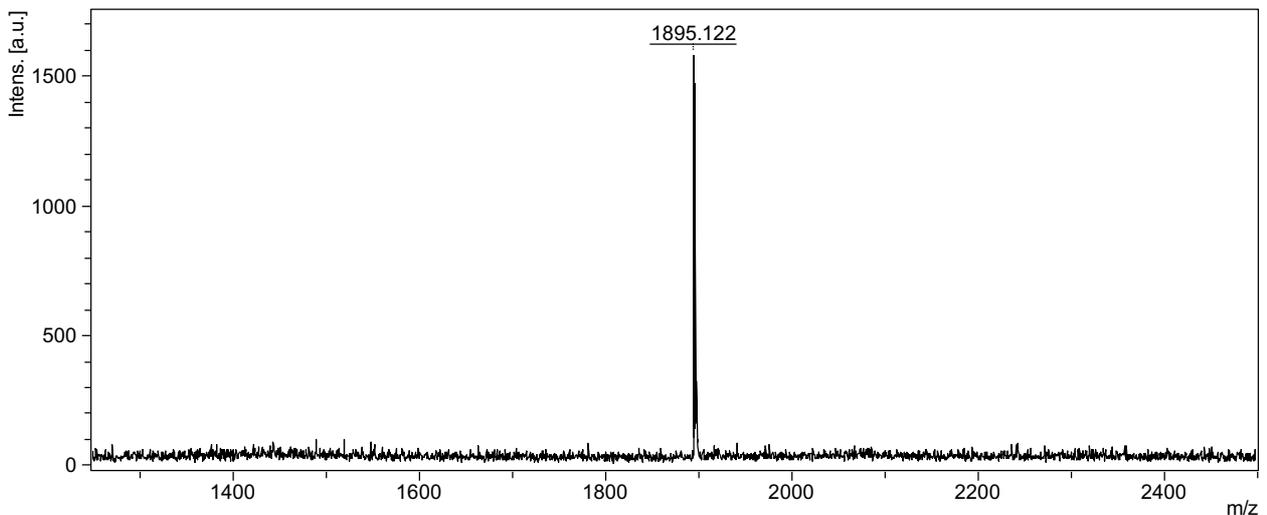
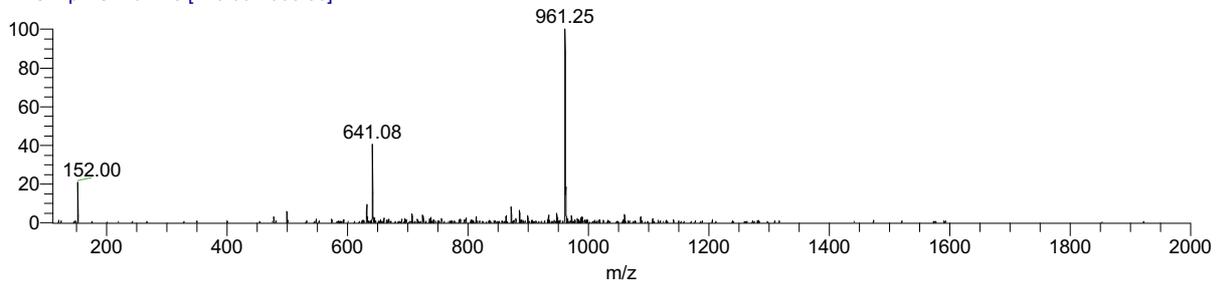
AK_3_16_Y6_aftercl_H2O

02/05/2023 17:06:10

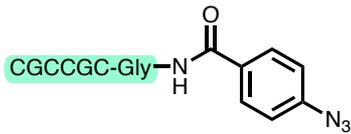


AK_3_16_Y6_aftercl_H2O #75 RT: 1.26 AV: 1 NL: 5.90E2

T: ITMS + p ESI Full ms [110.00-2000.00]



Y7

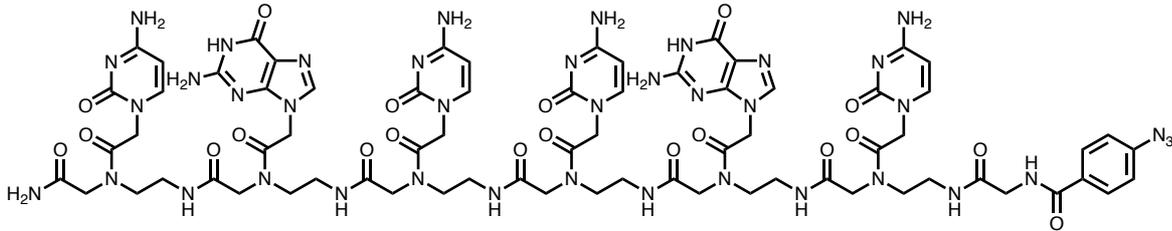


Sequence:

Chemical Formula: C₇₁H₈₇N₃₉O₂₀, Exact Mass: 1805.70

LC-MS (ESI) RT = 1.19 min, m/z found: 904.00 [M+2H]²⁺, 889.92 [M-N₂+2H]²⁺; calc. 903.86 [M+2H]²⁺, 889.85 [M-N₂+2H]²⁺

MALDI-TOF m/z found 1780.77 [M-N₂+3H]⁺; calc. 1780.72 [M-N₂+3H]⁺

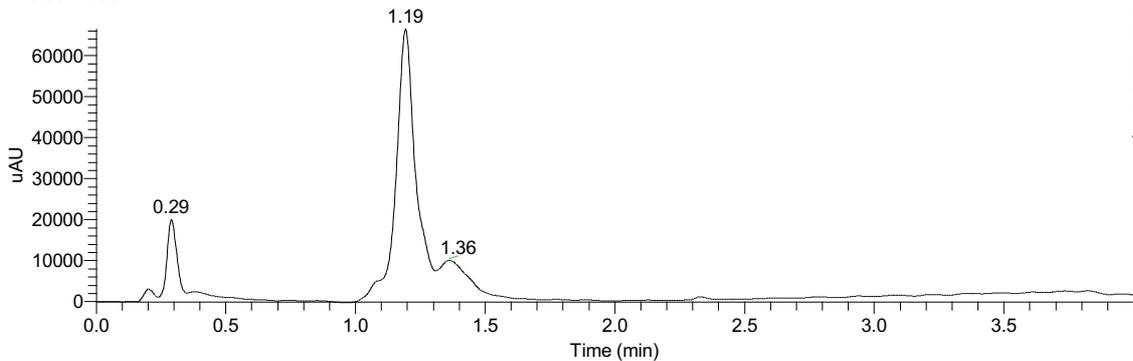


m/z: 1805.70 (100.0%), 1806.70 (92.0%), 1807.71 (30.4%)

ak_4_27_y6_aftercl_h2o

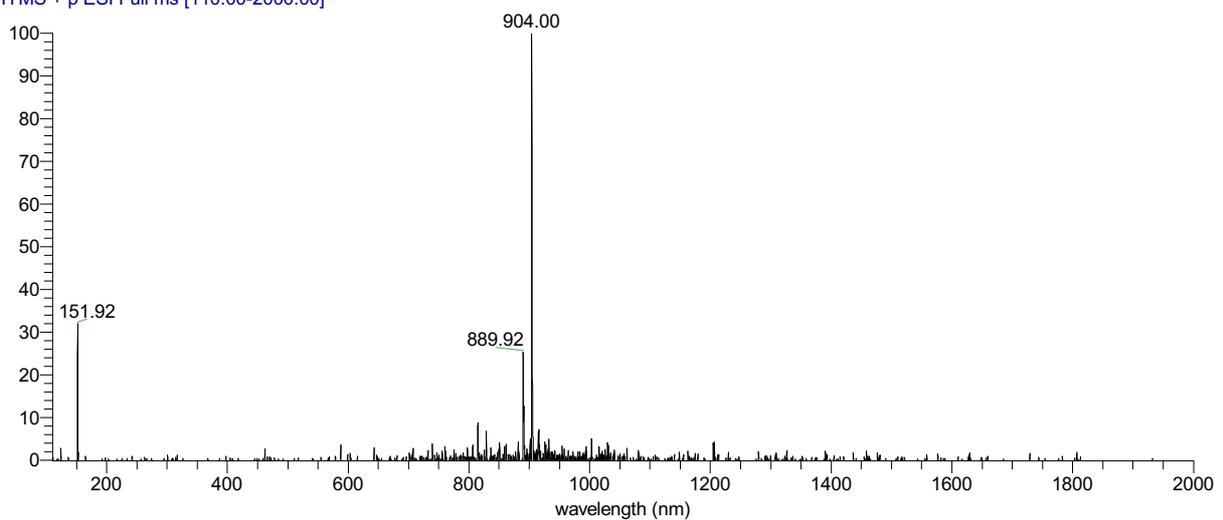
20/06/2023 00:38:52

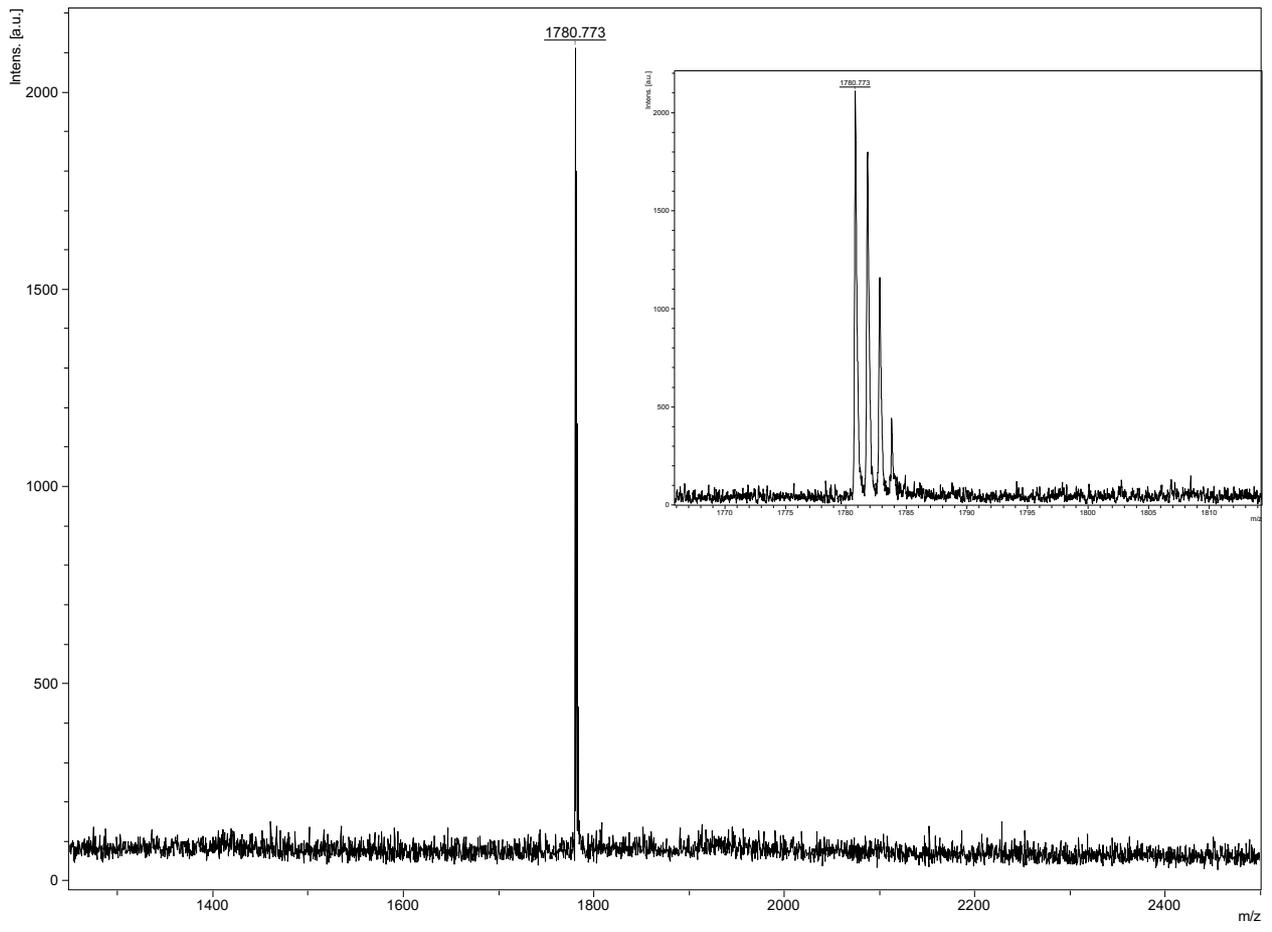
RT: 0.00 - 4.00



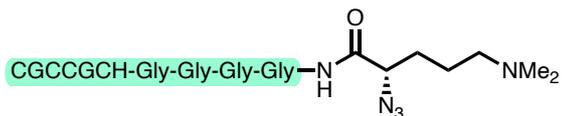
NL:
6.65E4
nm=259.5-
260.5 PDA
ak_4_27_y6
_aftercl_h2o

ak_4_27_y6_aftercl_h2o #71 RT: 1.20 AV: 1 NL: 2.17E2
T: ITMS + p ESI Full ms [110.00-2000.00]





Y8

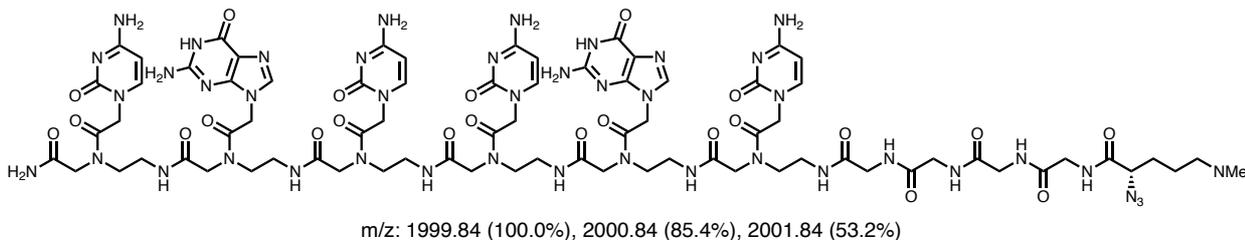


Sequence:

Chemical Formula: C₇₇H₁₀₅N₄₃O₂₃, Exact Mass: 1999.84

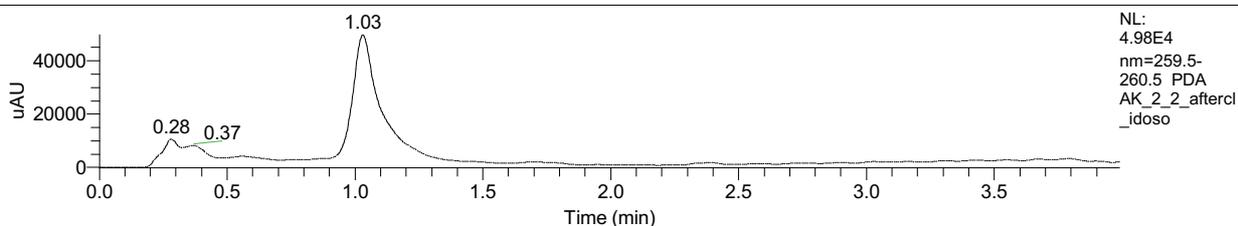
LC-MS (ESI) RT = 1.03 min, m/z found: 1001.50 [M+2H]²⁺, 667.92 [M+3H]³⁺; 1001.43 [M+2H]²⁺, 667.62 [M+3H]³⁺

MALDI-TOF m/z found 1974.77 [M-N₂+3H]⁺, 2001.78 [M+H]⁺; calc. 1974.85 [M-N₂+3H]⁺, 2000.84 [M+H]⁺



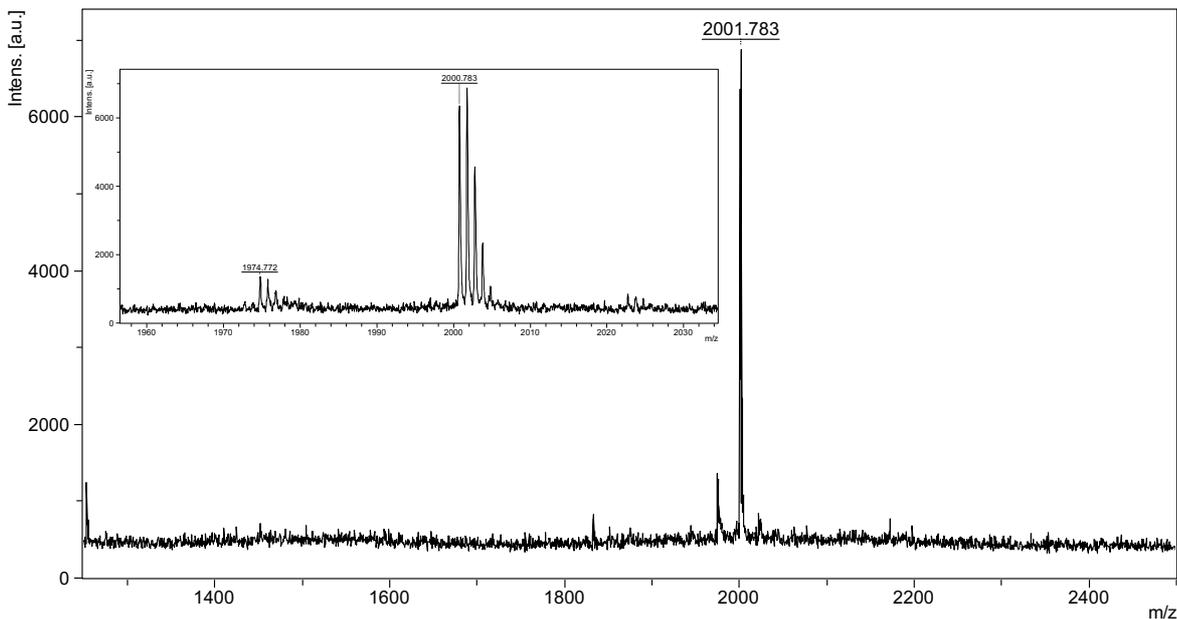
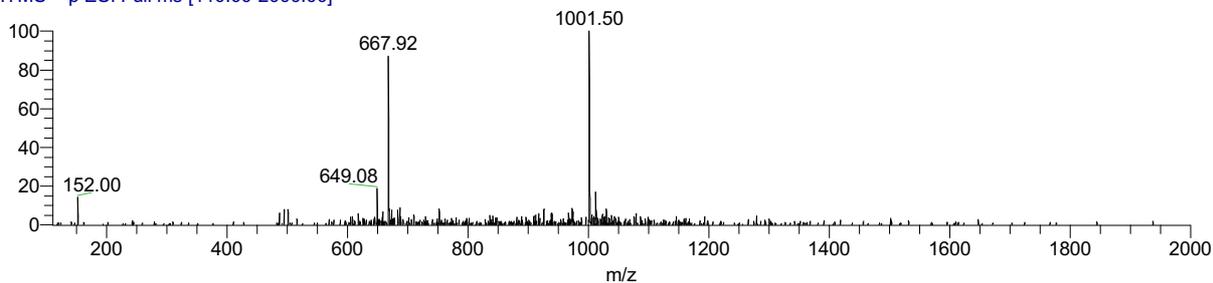
AK_2_2_aftercl_idoso

02/05/2023 23:00:53

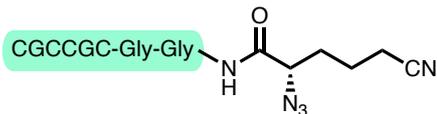


AK_2_2_aftercl_idoso #61 RT: 1.03 AV: 1 NL: 1.32E2

T: ITMS + p ESI Full ms [110.00-2000.00]



Y9

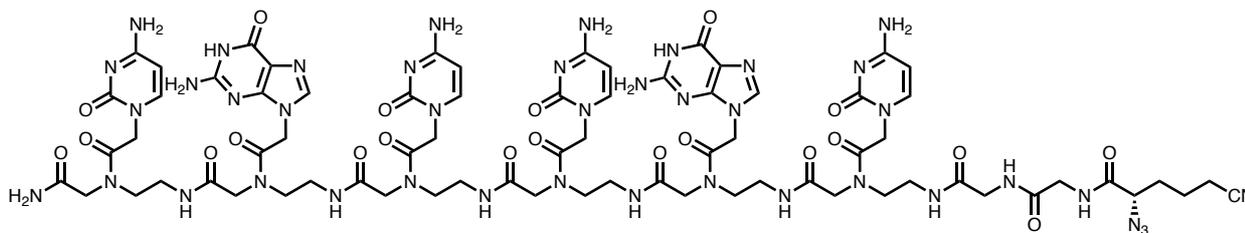


Sequence:

Chemical Formula: $C_{72}H_{93}N_{41}O_{21}$, Exact Mass: 1867.75

LC-MS (ESI) RT = 1.16 min, m/z found: 935.08 $[M+2H]^{2+}$, 624.17 $[M+3H]^{3+}$; calc. 934.88 $[M+2H]^{2+}$, 623.59 $[M+3H]^{3+}$

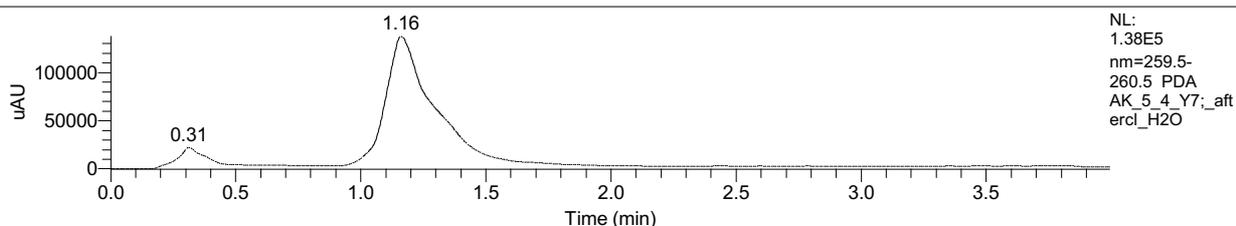
MALDI-TOF m/z found 1868.79 $[M+H]^+$, 1890.75 $[M+Na]^+$; calc. 1868.75 $[M+H]^+$, 1890.74 $[M+Na]^+$



m/z: 1867.75 (100.0%), 1868.75 (79.7%), 1869.75 (46.9%)

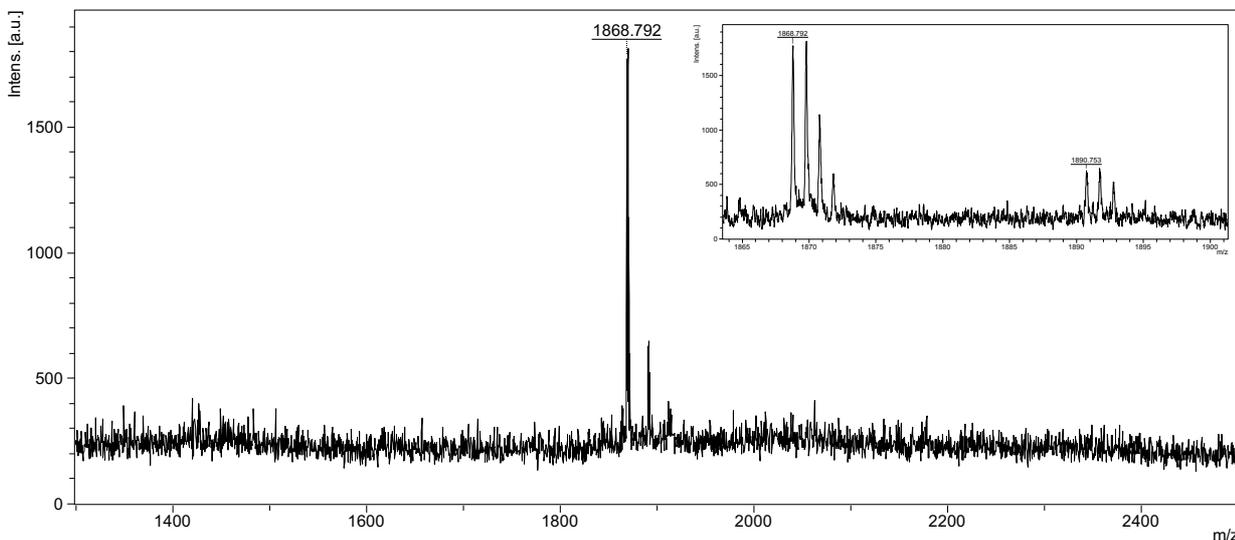
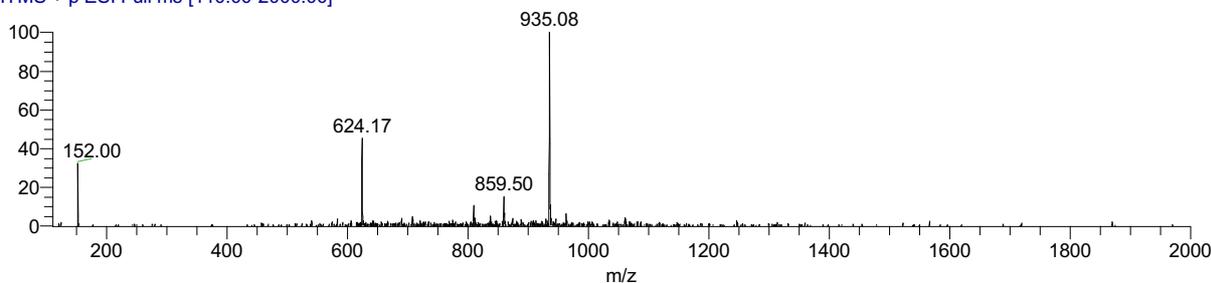
AK_5_4_Y7;_aftercl_H2O

02/05/2023 17:26:44



NL:
1.38E5
nm=259.5-
260.5 PDA
AK_5_4_Y7;_aft
ercl_H2O

AK_5_4_Y7;_aftercl_H2O #69 RT: 1.16 AV: 1 NL: 3.97E2
T: ITMS + p ESI Full ms [110.00-2000.00]



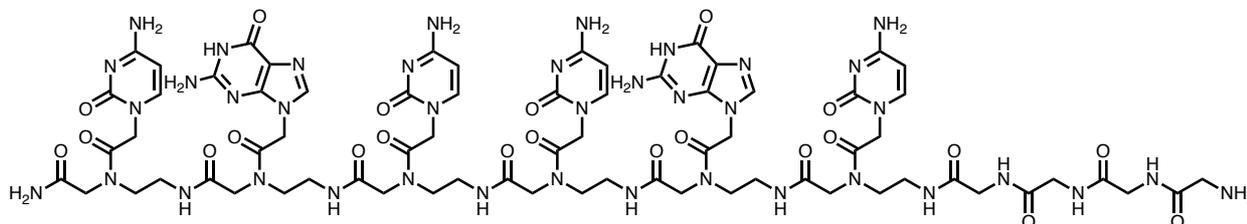
Y10

Sequence: CGCCGC-Gly-Gly-Gly-Gly-NH₂

Chemical Formula: C₇₀H₉₃N₃₉O₂₂, Exact Mass: 1831.74

LC-MS (ESI) RT = 0.30 min, m/z found: 917.42 [M+2H]²⁺; calc. 916.88 [M+2H]²⁺

MALDI-TOF m/z found 1833.66 [M+H]⁺, 1855.61 [M+Na]⁺, 1871.58 [M+K]⁺; calc. 1832.74 [M+H]⁺, 1854.73 [M+Na]⁺, 1870.70 [M+K]⁺

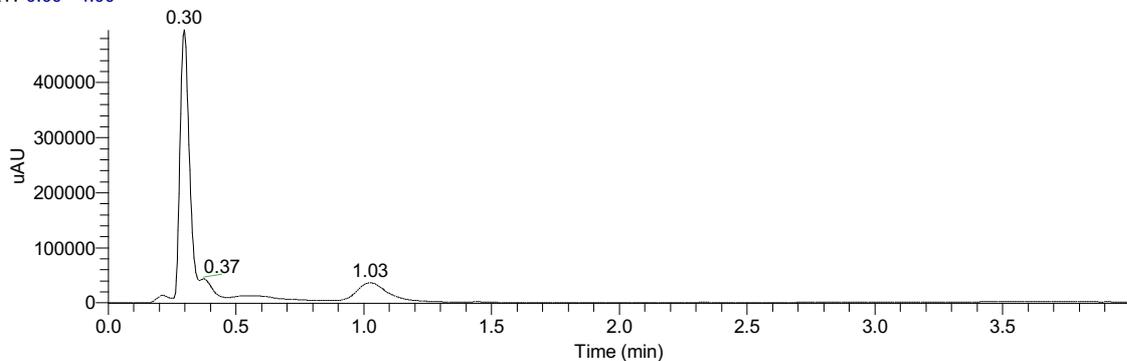


m/z: 1831.74 (100.0%), 1832.74 (77.6%), 1833.74 (44.6%)

ak_4_26_3_afterck_h2o

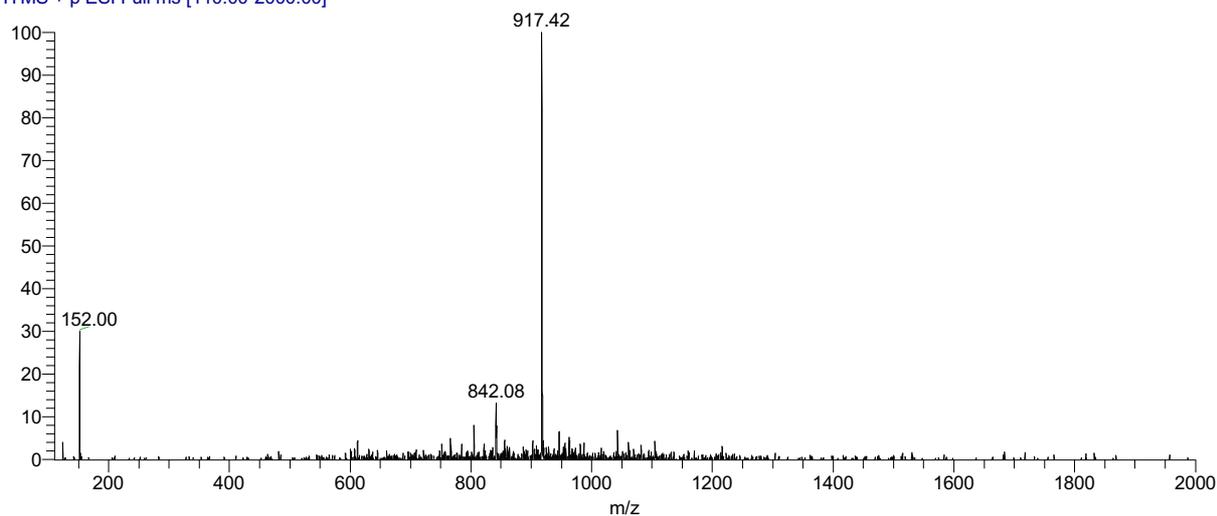
19/06/2023 23:35:56

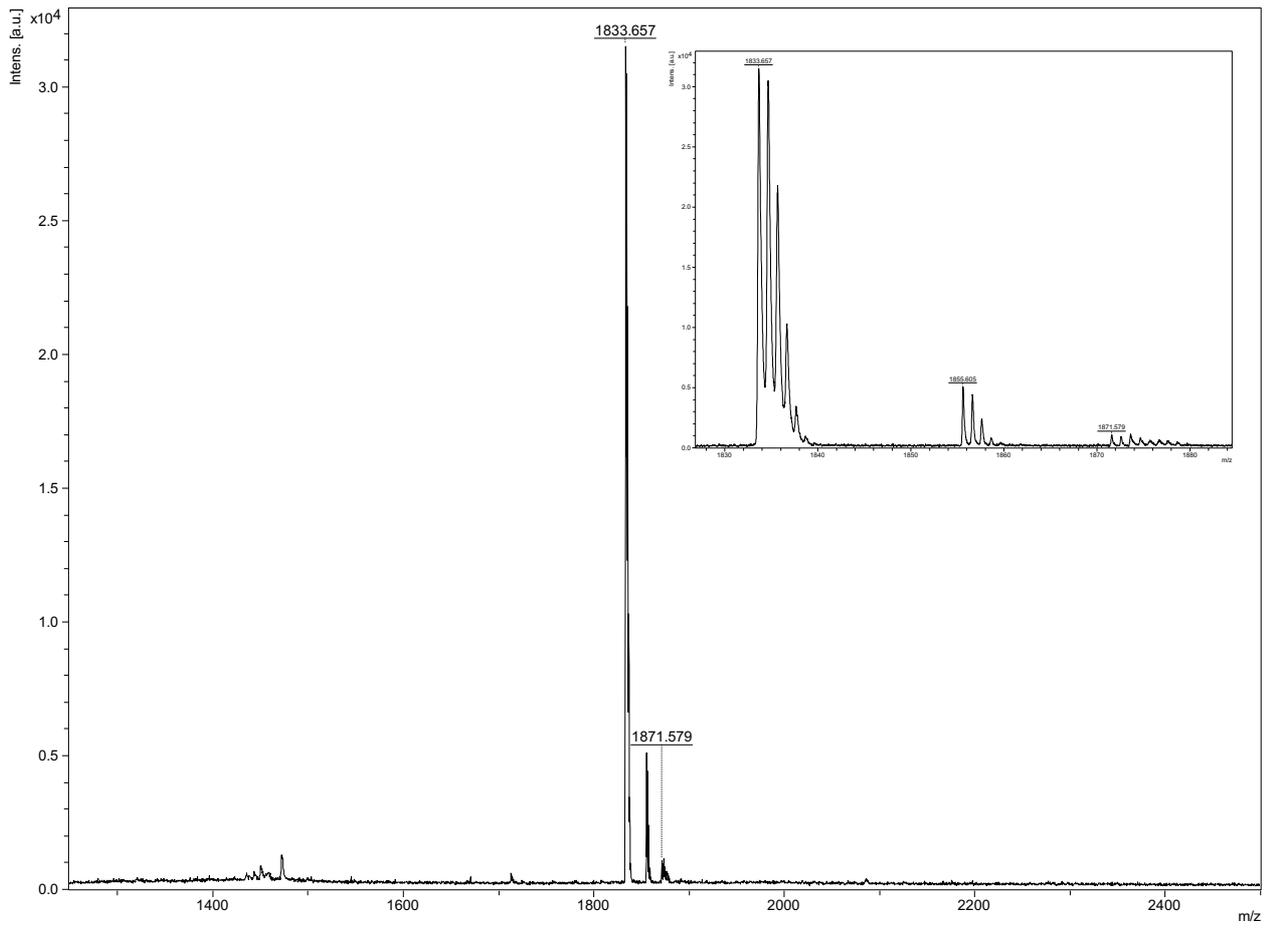
RT: 0.00 - 4.00



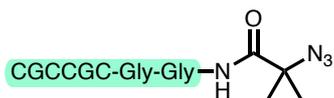
NL:
4.95E5
nm=259.5-
260.5 PDA
ak_4_26_3
afterck_h2o

ak_4_26_3_afterck_h2o #18 RT: 0.29 AV: 1 NL: 3.25E2
T: ITMS + p ESI Full ms [110.00-2000.00]





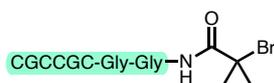
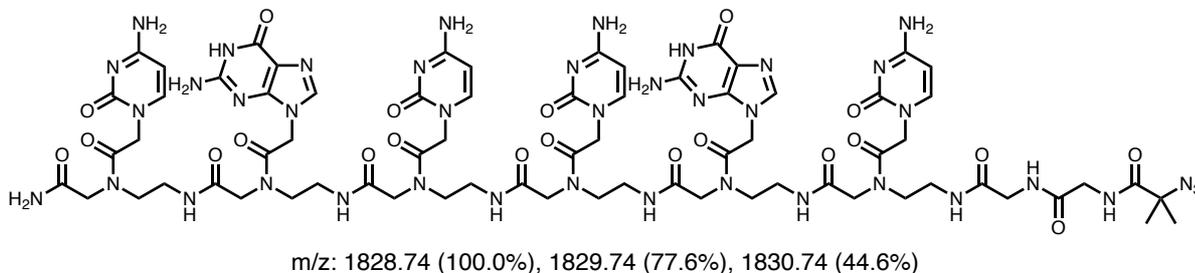
Y11



Chemical Formula: $C_{70}H_{92}N_{40}O_{21}$, Exact Mass: 1828.74

LC-MS (ESI) RT = 1.12 min, m/z found: 915.67 $[M+2H]^{2+}$; calc. 915.38 $[M+2H]^{2+}$

MALDI-TOF m/z found 1829.847 $[M+H]^+$; calc. 1829.74 $[M+H]^+$

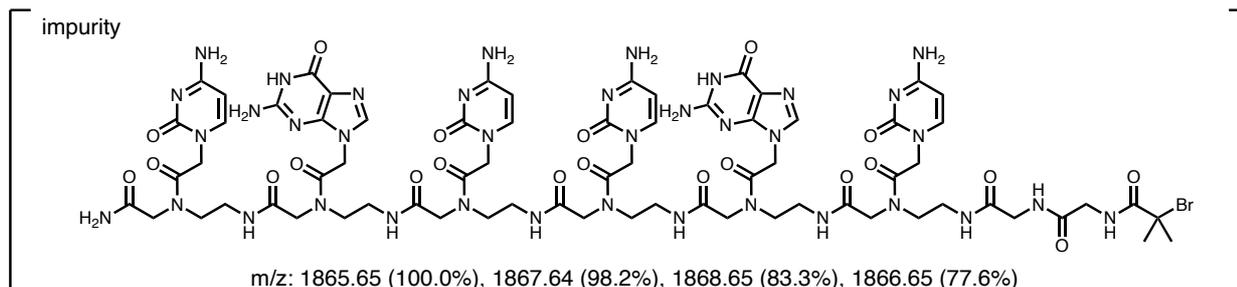


Sequence of impurity

Chemical Formula: $C_{70}H_{92}BrN_{37}O_{21}$, Exact Mass: 1865.65

LC-MS (ESI) RT = 1.12 min, m/z found: 935.00 $[M+2H]^{2+}$; calc. 934.83 $[M+2H]^{2+}$

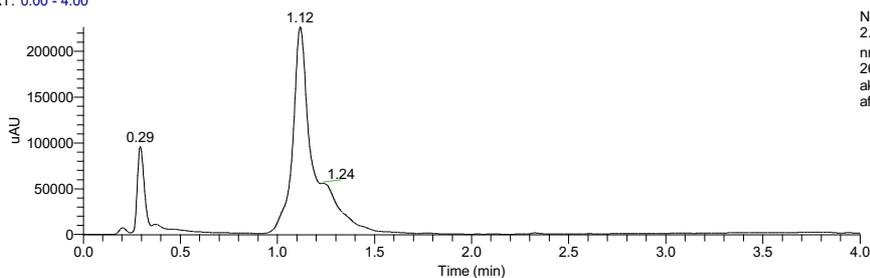
MALDI-TOF m/z found 1866.84 $[M+H]^+$; calc. 1866.65 $[M+H]^+$



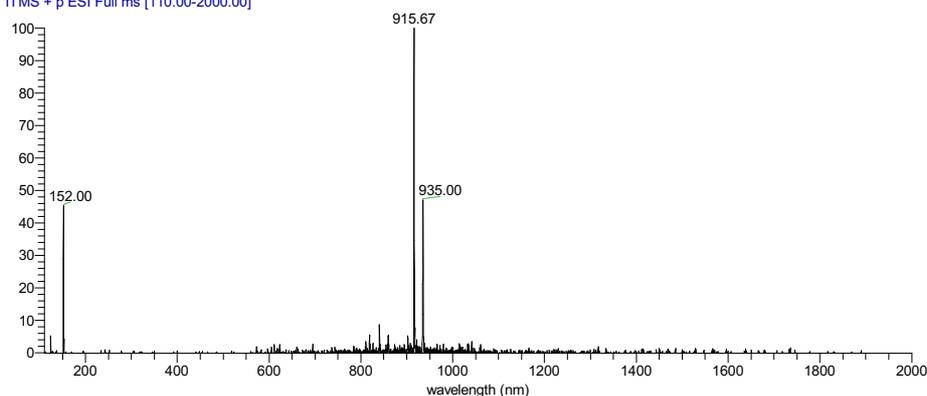
ak_4_6_y5_aftercl_h2o

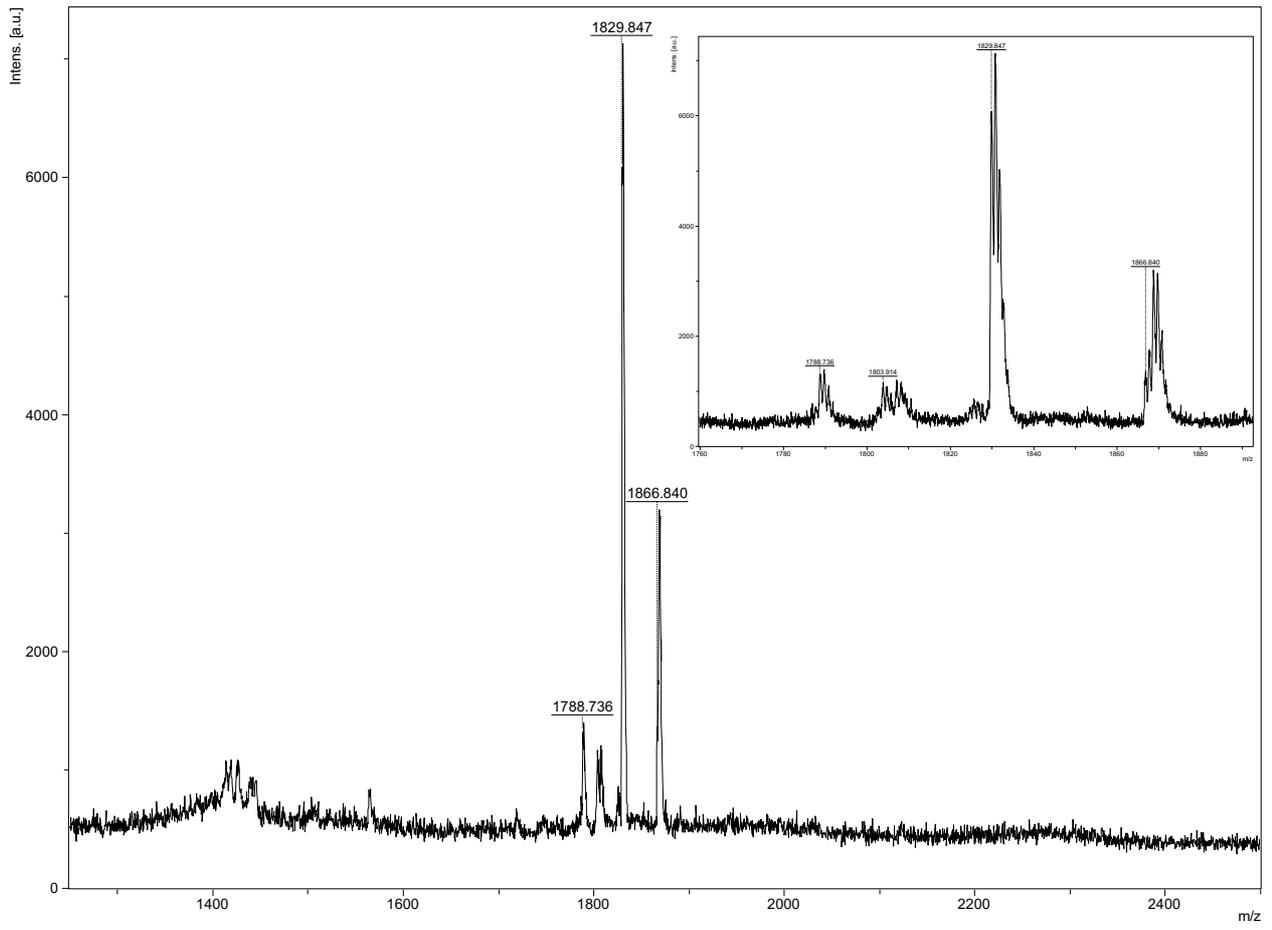
20/06/2023 00:13:42

RT: 0.00 - 4.00



ak_4_6_y5_aftercl_h2o#66 RT: 1.11 AV: 1 NL: 5.01E2
T: ITMS + p ESI Full ms [110.00-2000.00]





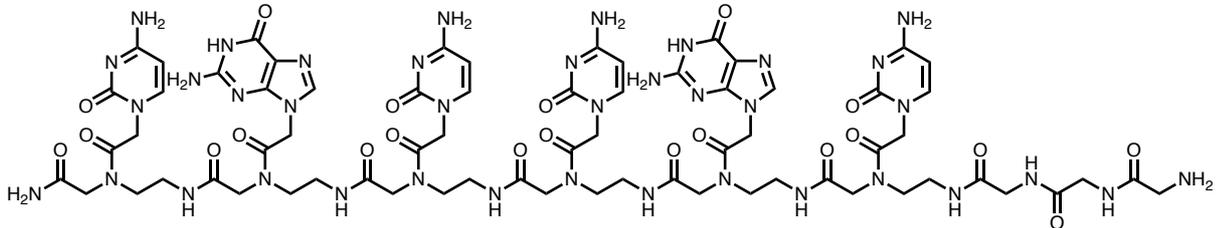
Y12

Sequence: CGCCGC-Gly-Gly-Gly-NH₂

Chemical Formula: C₆₈H₉₀N₃₈O₂₁, Exact Mass: 1774.71

LC-MS (ESI) RT = 0.22 min, m/z found: 888.67 [M+2H]²⁺; calc. 888.36 [M+2H]²⁺

MALDI-TOF m/z found 1775.70 [M+H]⁺, 1797.69 [M+Na]⁺; calc. 1775.72 [M+H]⁺, 1797.70 [M+Na]⁺

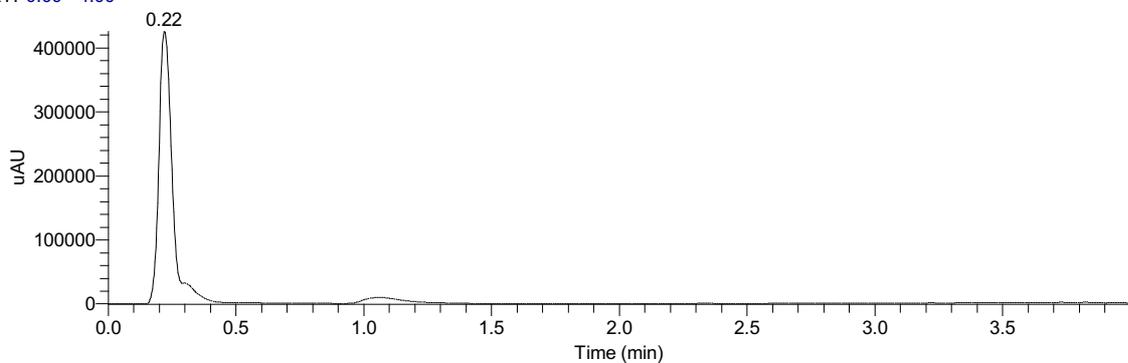


m/z: 1774.71 (100.0%), 1775.72 (75.4%), 1776.72 (32.6%)

ak_3_21_nh2_aftercl_h2o

20/06/2023 00:26:17

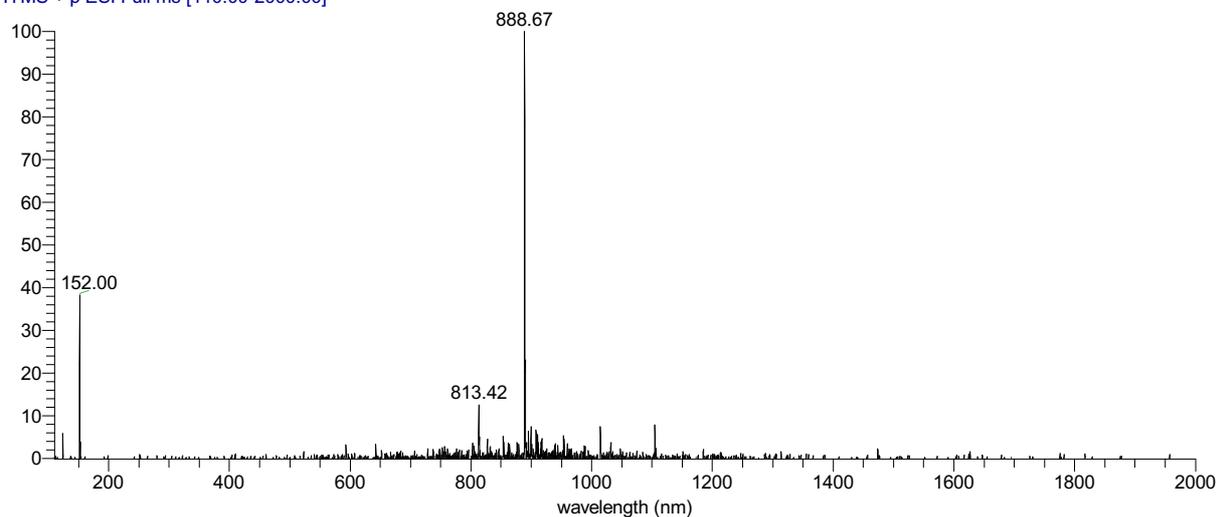
RT: 0.00 - 4.00

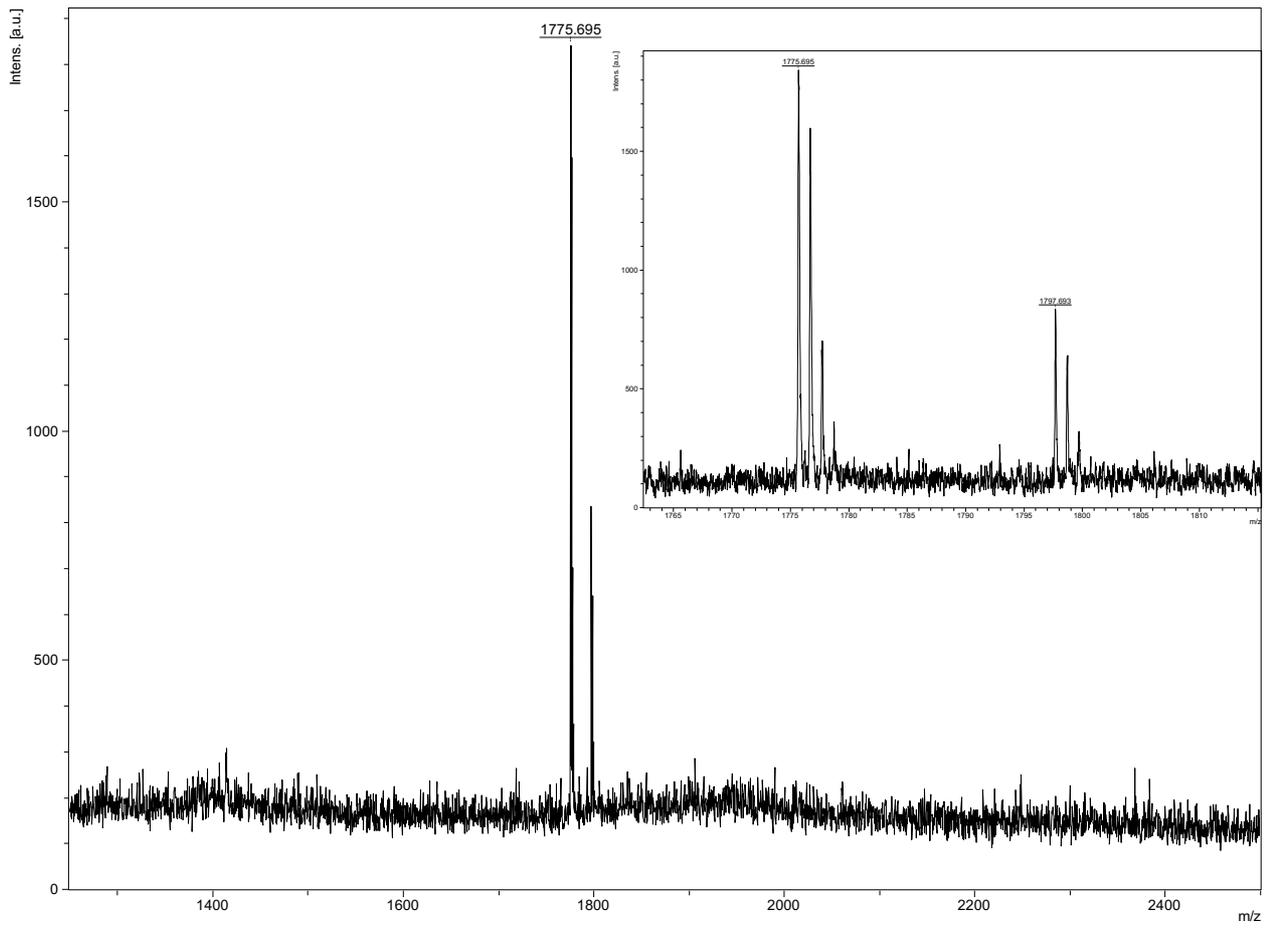


NL:
4.26E5
nm=259.5-
260.5 PDA
ak_3_21_nh
2_aftercl_h2
o

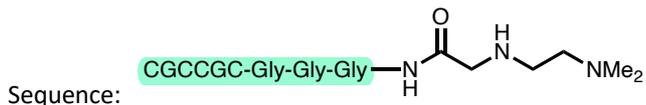
ak_3_21_nh2_aftercl_h2o#14 RT: 0.22 AV: 1 NL: 4.70E2

T: ITMS + p ESI Full ms [110.00-2000.00]





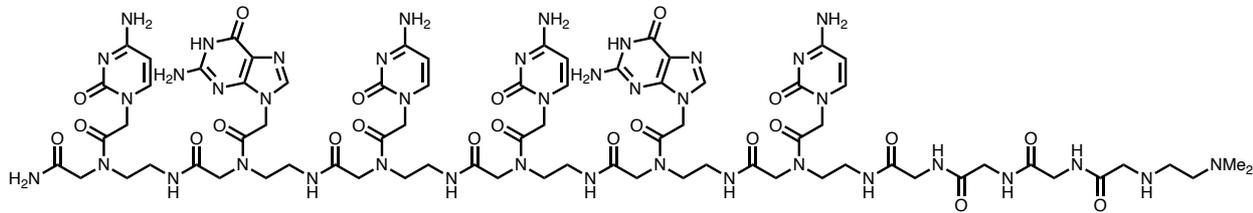
Y13



Chemical Formula: C₇₄H₁₀₂N₄₀O₂₂, Exact Mass: 1902.81

LC-MS (ESI) RT = 0.29 min, m/z found: 952.67 [M+2H]²⁺; calc. 952.41 [M+2H]²⁺

MALDI-TOF m/z found 1903.82 [M+H]⁺; calc. 1903.82 [M+H]⁺

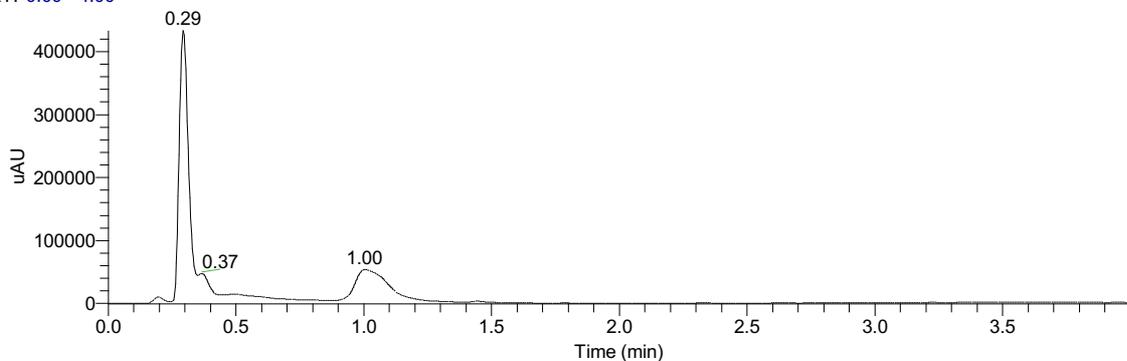


m/z: 1902.81 (100.0%), 1903.81 (95.6%), 1904.82 (33.2%)

ak_4_29_aftercl_h2o

20/06/2023 00:51:26

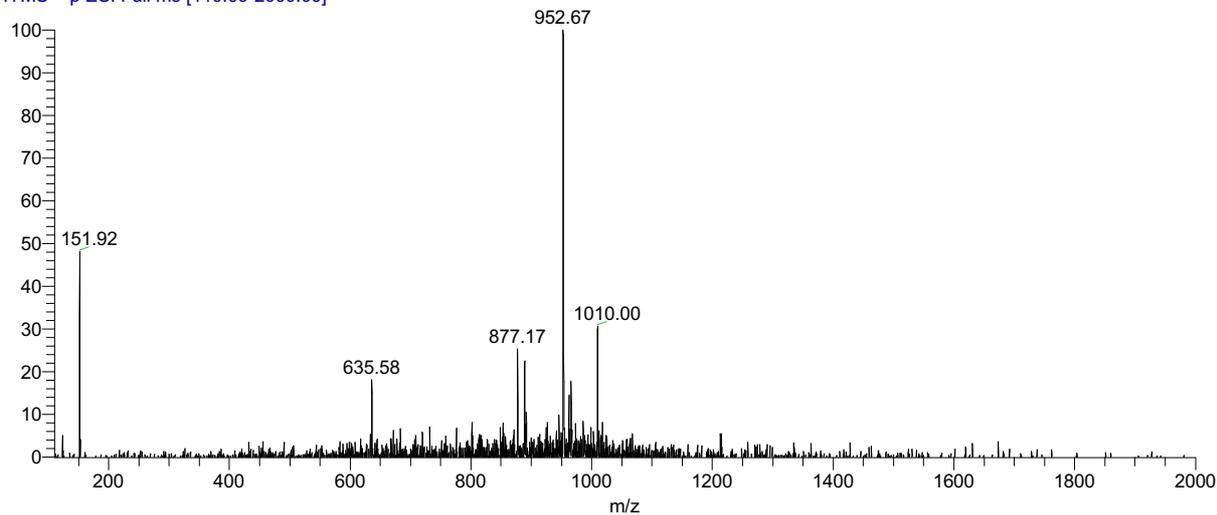
RT: 0.00 - 4.00

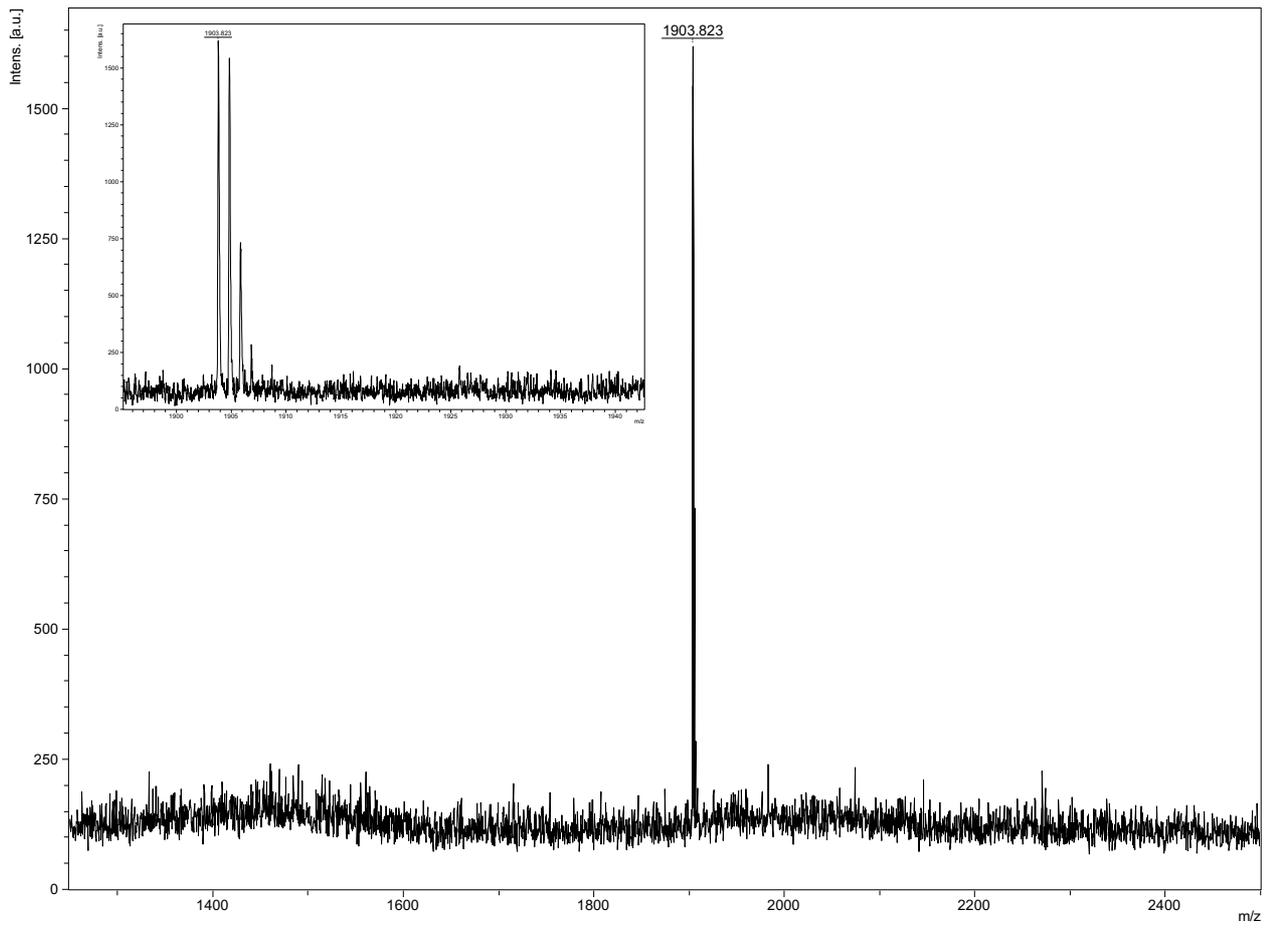


NL:
4.33E5
nm=259.5-
260.5 PDA
ak_4_29_aft
ercl_h2o

ak_4_29_aftercl_h2o #18 RT: 0.29 AV: 1 NL: 2.19E2

T: ITMS + p ESI Full ms [110.00-2000.00]





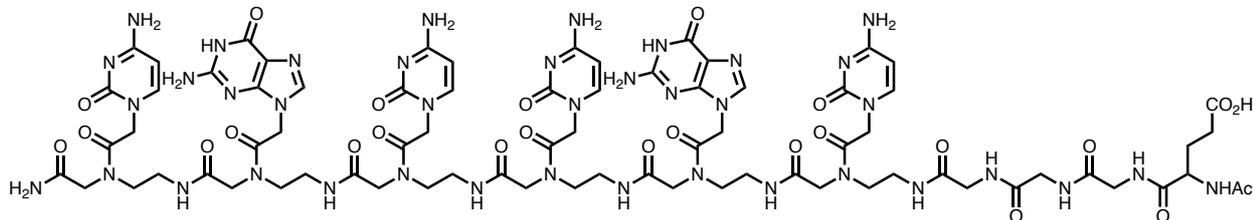
Y14

Sequence: CGCCGC-Gly-Gly-Gly-Glu-NHAc

Chemical Formula: C₇₅H₉₉N₃₉O₂₅, Exact Mass: 1945.77

LC-MS (ESI) RT = 1.05 min, m/z found: 974.50 [M+2H]²⁺; calc. 973.89 [M+2H]²⁺

MALDI-TOF m/z found 1946.97 [M+H]⁺, 1968.95 [M+Na]⁺; calc. 1946.78 [M+H]⁺, 1968.76 [M+Na]⁺

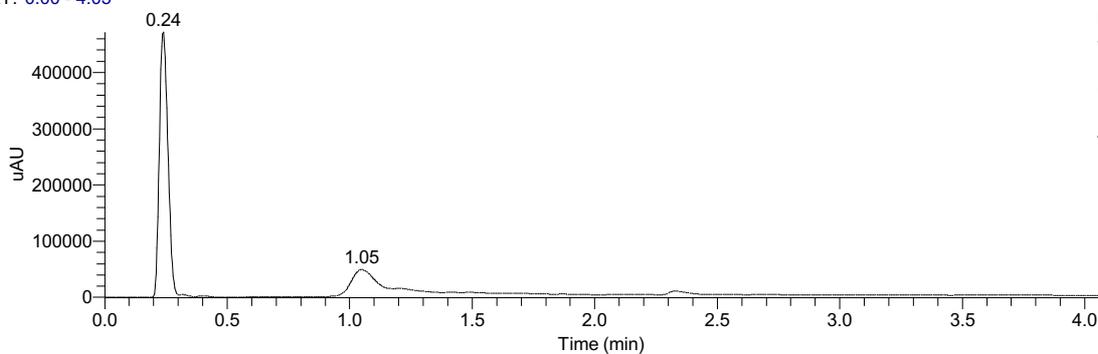


m/z: 1945.77 (100.0%), 1946.77 (83.2%), 1947.77 (49.6%)

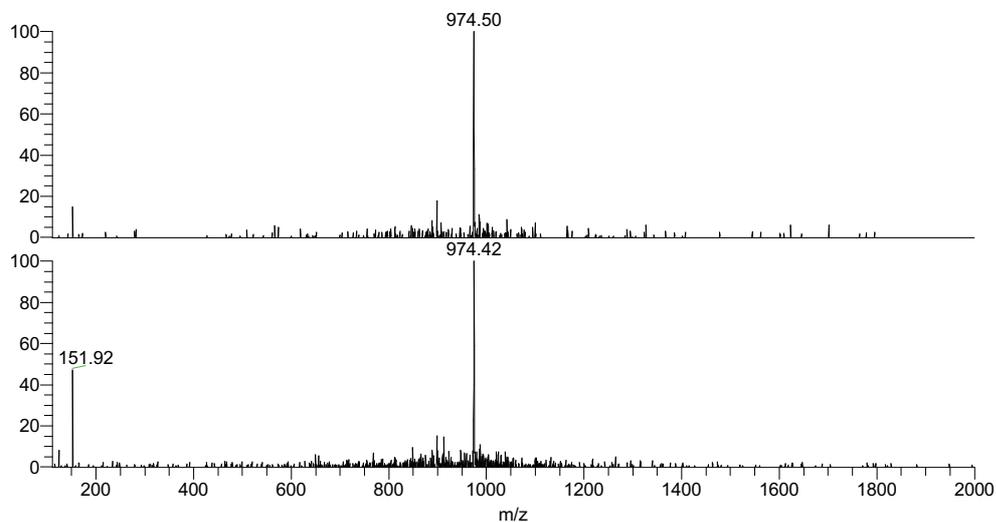
\\cqfleetpc\data\...lak_5_3_glu_aftercl

31/03/2023 19:28:37

RT: 0.00 - 4.05

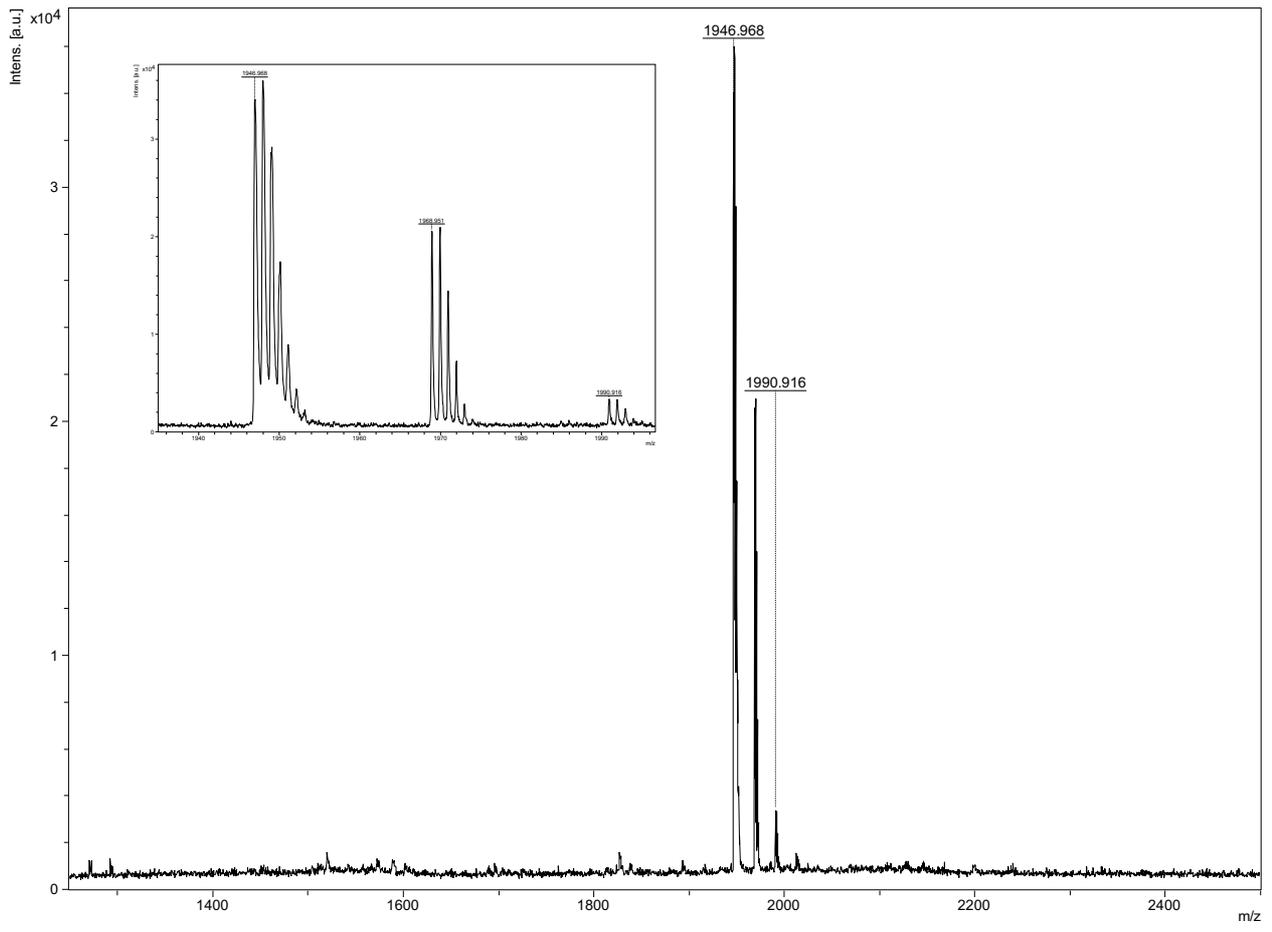


NL:
4.71E5
nm=259.5-
260.5 PDA
ak_5_3_glu
_aftercl



NL: 8.13E1
ak_5_3_glu_aftercl#62
RT: 1.04 AV: 1 T:
ITMS + p ESI Full ms
[110.00-2000.00]

NL: 1.32E2
ak_5_3_glu_aftercl#15
RT: 0.24 AV: 1 T:
ITMS + p ESI Full ms
[110.00-2000.00]



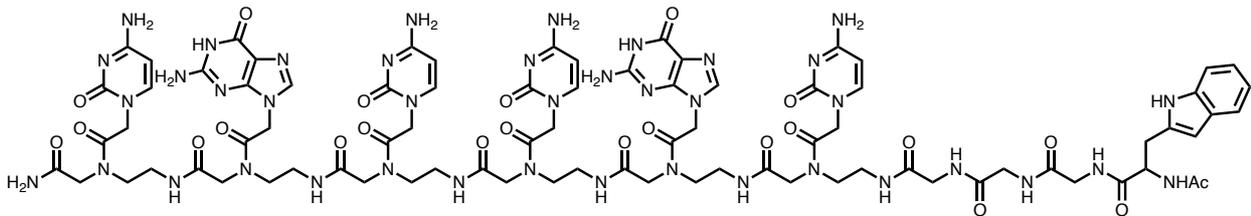
Y15

Sequence: **CGCCGC-Gly-Gly-Gly-Trp**—NHAc

Chemical Formula: C₈₁H₁₀₂N₄₀O₂₃, Exact Mass: 2002.80

LC-MS (ESI) RT = 1.14 min, m/z found: 1002.92 [M+2H]²⁺; 1002.91[M+2H]²⁺

MALDI-TOF m/z found 2004.10 [M+H]⁺, 2026.08 [M+Na]⁺, 2048.05 [M+HCO₂]⁺; calc. 2004.81 [M+H]⁺, 2026.80 [M+Na]⁺, 2047.80 [M+HCO₂]⁺

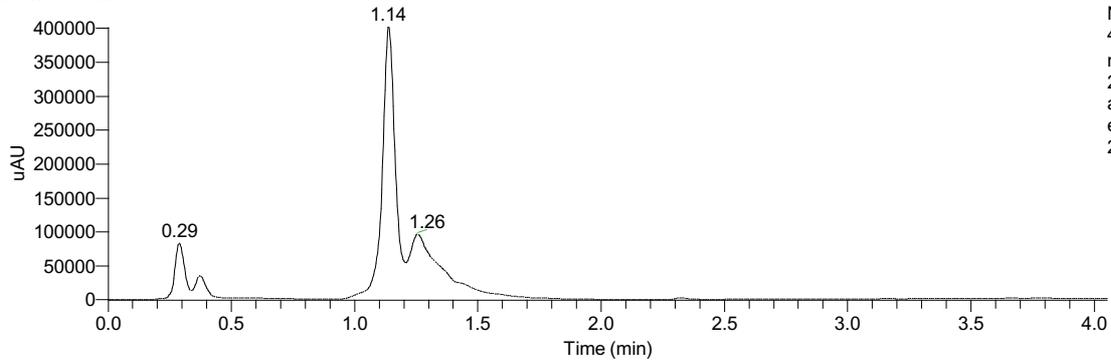


m/z: 2002.80 (100.0%), 2003.81 (89.7%), 2004.81 (44.7%)

ak_5_3_trp_aftercl_h2o_230620202209

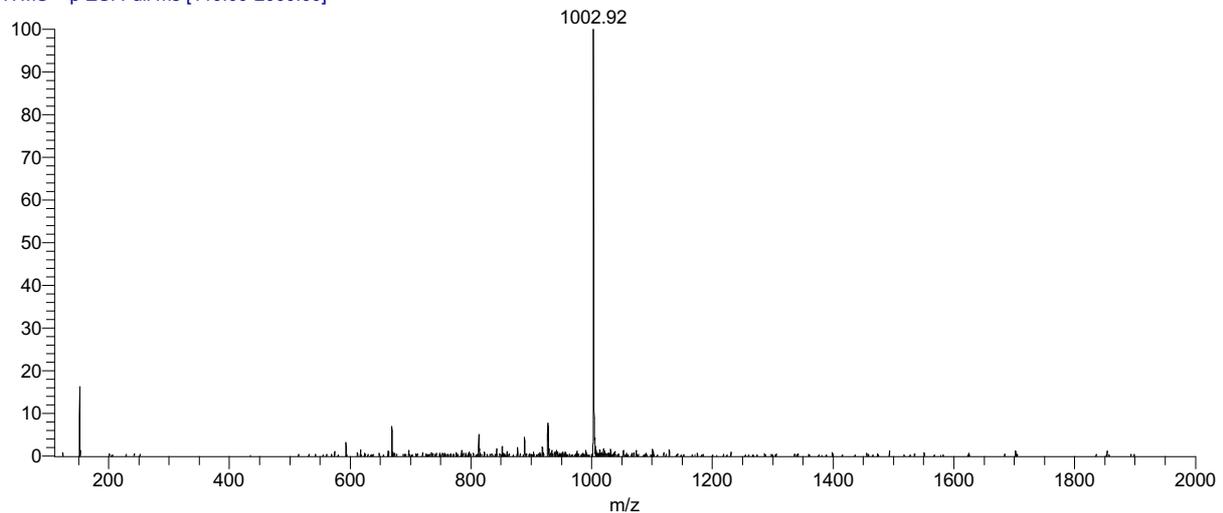
20/06/2023 20:22:09

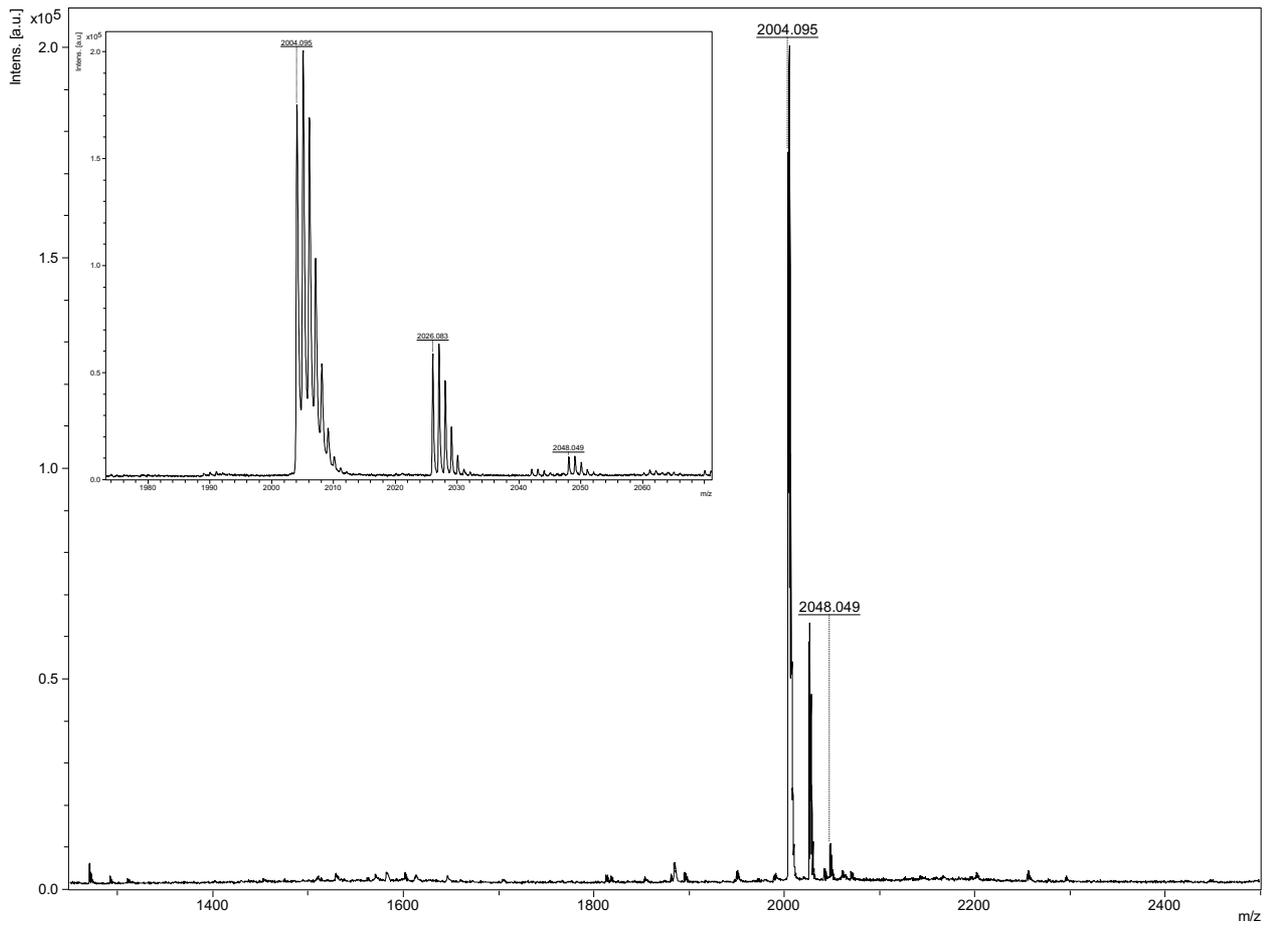
RT: 0.00 - 4.05

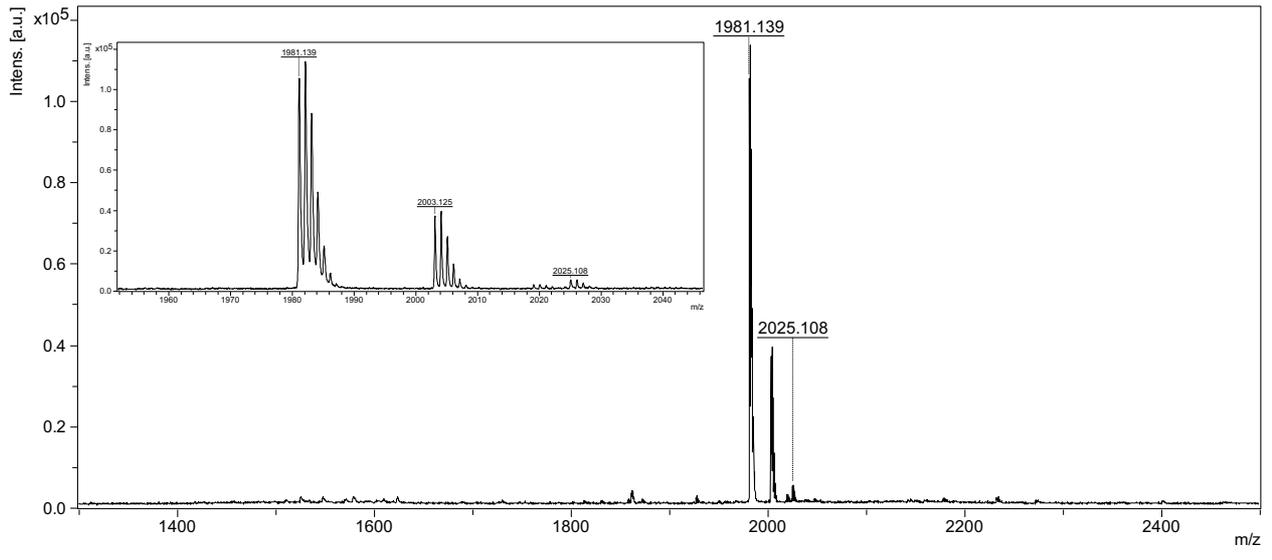


NL:
4.02E5
nm=259.5-
260.5 PDA
ak_5_3_trp_aft
ercl_h2o_2306
20202209

ak_5_3_trp_aftercl_h2o_230620202209 #68 RT: 1.15 AV: 1 NL: 1.55E3
T: ITMS + p ESI Full ms [110.00-2000.00]







Y18



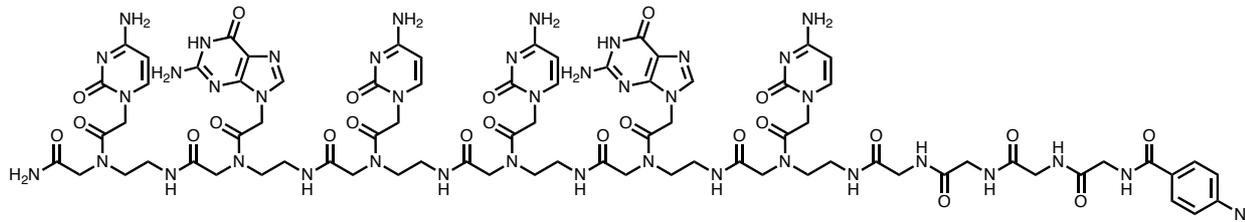
Sequence:

*Y18 contains a truncated PNA (missing one glycine) as an impurity.

Chemical Formula: C₇₇H₉₆N₄₂O₂₃, Exact Mass: 1976.76

LC-MS (ESI) RT = 1.45 min, m/z found: 989.67 [M+2H]²⁺, 660.17 [M+3H]³⁺; calc. 989.89 [M+2H]²⁺, 660.26 [M+3H]³⁺

MALDI-TOF m/z found 1950.67 [M-N₂+2H]⁺; calc. 1950.77 [M-N₂+2H]⁺

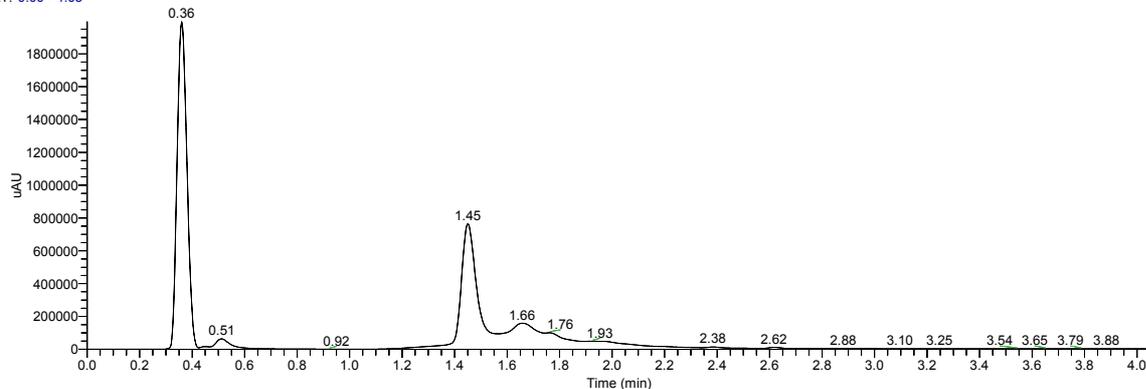


m/z: 1976.76 (100.0%), 1977.77 (85.3%), 1978.77 (40.8%)

F:\20250812\AK_02_1_A_221003194145

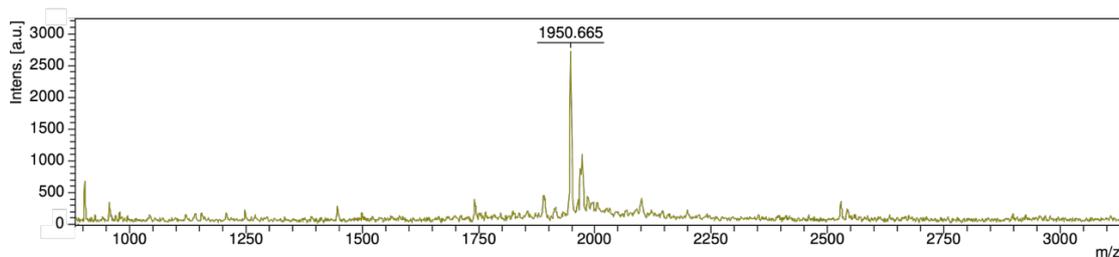
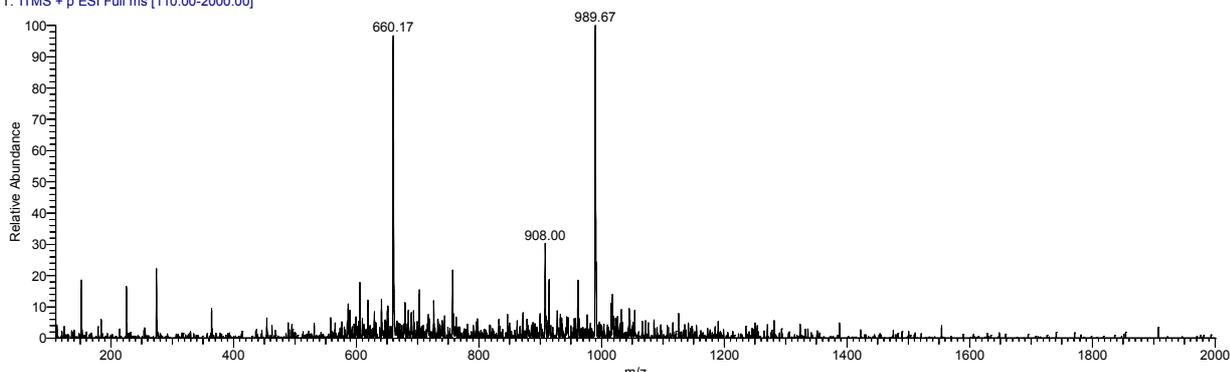
10/03/22 19:41:45

RT: 0.00 - 4.05

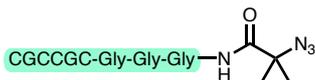


NL:
2.00E6
nm=260.0-
260.0 PDA
AK_02_1_A
_22100319
4145

AK_02_1_A_221003194145 #91 RT: 1.45 AV: 1 SM: 7B NL: 3.28E2
T: ITMS + p ESI Full ms [110.00-2000.00]



Y19

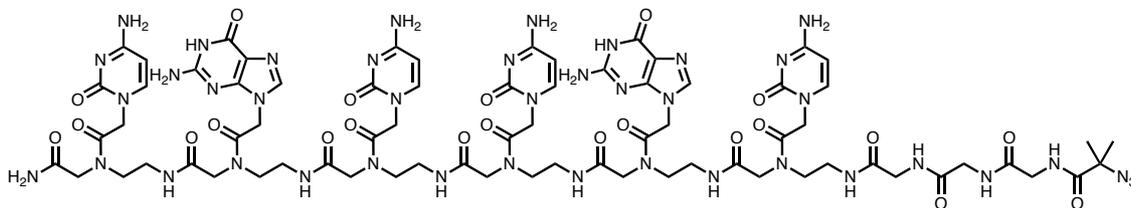


*Y19 contains Y19' as an impurity.

Chemical Formula: $C_{72}H_{95}N_{41}O_{22}$, Exact Mass: 1885.76

LC-MS (ESI) RT = 1.19 min, m/z found: 944.06 $[M+2H]^{2+}$, 629.92 $[M+3H]^{3+}$; calc. 943.89 $[M+2H]^{2+}$, 629.59 $[M+3H]^{3+}$

MALDI-TOF m/z found 1887.04 $[M+H]^+$; calc. 1886.76 $[M+H]^+$



m/z: 1885.76 (100.0%), 1886.76 (79.8%), 1887.76 (46.4%)

Y19'

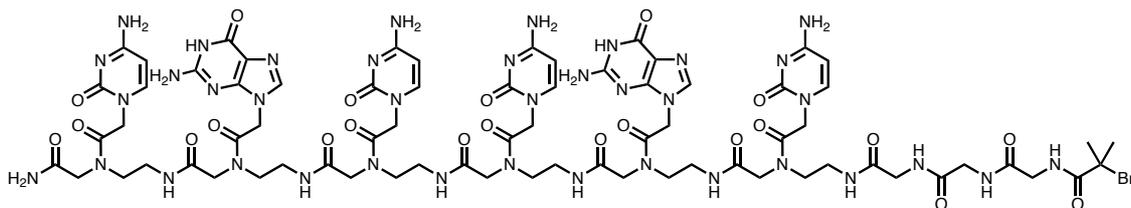


Sequence:

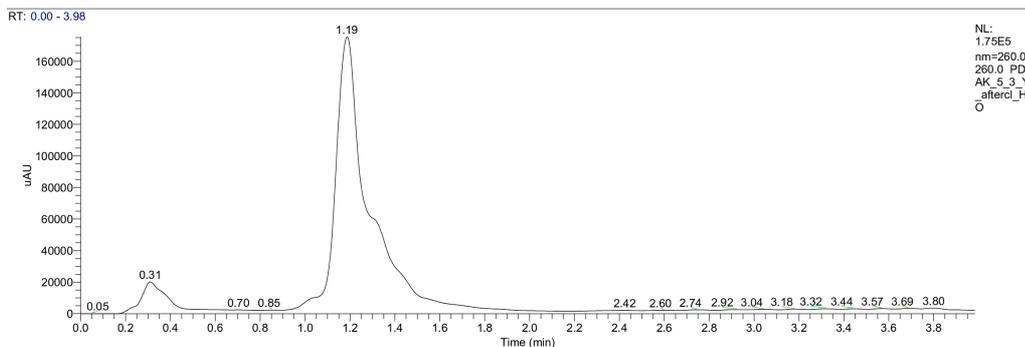
Chemical Formula: $C_{72}H_{95}BrN_{38}O_{22}$, Exact Mass: 1922.67

LC-MS (ESI) RT = 1.19 min, m/z found: 963.42 $[M+2H]^{2+}$, 642.67 $[M+3H]^{2+}$; calc. 963.34 $[M+2H]^{2+}$, 642.56 $[M+3H]^{2+}$

MALDI-TOF m/z found 1925.98 $[M+H]^+$; calc. 1925.67 $[M+H]^+$



m/z: 1922.67 (100.0%), 1924.66 (98.2%), 1925.67 (86.1%), 1923.67 (79.8%)



NL:
1.75E5
nm=260.0-
260.0 PDA
AK_5_3_Y5
aftercl_H2
O

AK_5_3_Y5_aftercl_H2O #71 RT: 1.20 AV: 1 NL: 3.10E2
T: ITMS + p ESI Full ms [110.00-2000.00]

