

Table S1: Solubility of cyclic peptomers

Compounds	Solubility (μM)			IC ₅₀
	PBS	DMEM	M9	
1EpDN 3Ala	180	ND ^a	ND ^a	>1000*
1EpDN 4Ala	75	ND ^a	ND ^a	>1000*
1EpDN 5Ala	127	ND ^a	ND ^a	>1000*
1EpDN 6Ala	125	ND ^a	ND ^a	>1000*
1EpDN	14-17	ND ^a	ND ^a	8.2
2EpDN	12	ND ^a	ND ^a	15.3
3EpDN	18	ND ^a	ND ^a	16
4EpDN	13	12	10	3.9
5EpDN	13	ND ^a	ND ^a	6.3
6EpDN	1	ND ^a	ND ^a	>1000*
7EpDN	26	ND ^a	ND ^a	6.7
8EpDN	1	ND ^a	ND ^a	41.5
9EpDN	10	ND ^a	ND ^a	12.8
4EpDN 1Sar	ND ^a	6	4	19
4EpDN 2Sar	ND ^a	61	61	~139.5

* >1000 indicates IC₅₀ could not be calculated

^a: Not Determined (ND)

Table S2. Primers used in this study

Name	Sequence	Description
oHL364	TACTGGAAACGGTGGCTAATAC	16S Forward for <i>Salmonella</i> qPCR
oHL365	TACCTCACCAACAAGCTAATCC	16S Reverse for <i>Salmonella</i> qPCR
oHL362	GCCAACGACGGTGAAACTA	fliC Forward for <i>Salmonella</i> qPCR
oHL363	GCCGTATCGCTGACCTTATATT	fliC Reverse for <i>Salmonella</i> qPCR
oHL346	ACGACTCATAATTGGCGATAC	hilA Forward for <i>Salmonella</i> qPCR
oHL347	CTGCGATAATCCCTTCACGATAG	hilA Reverse for <i>Salmonella</i> qPCR
oHL348	GGCGCTCTCTATGCACTTATC	hilD Forward for <i>Salmonella</i> qPCR
oHL349	GCAGGAAAGTCAGGCGTATAG	hilD Reverse for <i>Salmonella</i> qPCR
oHL350	GCAGCAAATTATTACGCCTTCTC	invF Forward for <i>Salmonella</i> qPCR
oHL351	CTGGTTGACTGAGCGAGTAAAT	invF Reverse for <i>Salmonella</i> qPCR
oHL352	ATGCGTTGTCCGGTAGTATTT	sipC Forward for <i>Salmonella</i> qPCR
oHL353	TTAAGCGCGCCTCTTTCA	sipC Reverse for <i>Salmonella</i> qPCR
oHL354	TCTTGTTATGCAGGAGGTGATG	sipA Forward for <i>Salmonella</i> qPCR
oHL355	GTCAACAAGGTGCGTAAGATTG	sipA Reverse for <i>Salmonella</i> qPCR
BQ89	CATGACCATCGCCTGATCTT	dnaB Forward for <i>P. aeruginosa</i> qPCR
BQ90	GTTGTCCTTCCTTCTCCAAC	dnaB Reverse for <i>P. aeruginosa</i> qPCR

oHL258	ATGCGGTAATGGACAAGGTC	exoT Forward for <i>P. aeruginosa</i> qPCR
oHL259	ACTCGCCGTTGGTATAGAGA	exoT Reverse for <i>P. aeruginosa</i> qPCR
oHL282	CCGGCAGATGTCCATTTC	DsbA Forward for <i>P. aeruginosa</i> qPCR
oHL283	CTCGACACCCATGCTTTC	DsbA Reverse for <i>P. aeruginosa</i> qPCR
BQ91	CTCTACACCGGCATTCACTAC	exoS Forward for <i>P. aeruginosa</i> qPCR
BQ92	CATACCTTGGTCGATCAGCTT	exoS Reverse for <i>P. aeruginosa</i> qPCR
oHL210	agcgaattcgagctcggtagcATGTCACTCAGTC GTCGC	Forward primer for 33 amino acid of <i>sufI</i> N terminus
oHL217	tttctgggtgAGGTTGCTGAGTACTACTAG	Reverse primer for 33 amino acid of <i>sufI</i> N terminus
oHL218	tcagcaacctCACCCAGAAACGCTGGTG	Forward primer for β -lactamase gene
oHL219	tctagaggatccccggtagcTTACCAATGCTTA ATCAGTGAGG	Reverse primer for β -lactamase gene

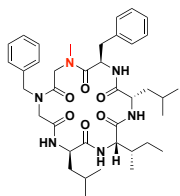
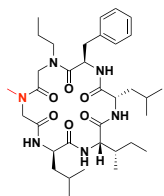
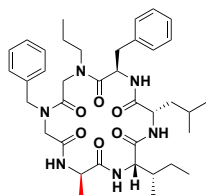
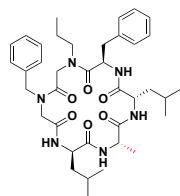
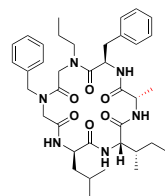
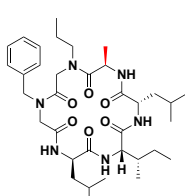
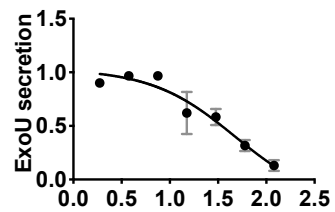
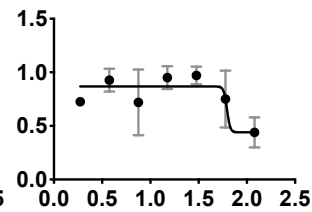
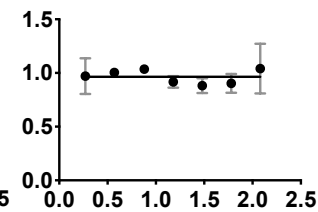
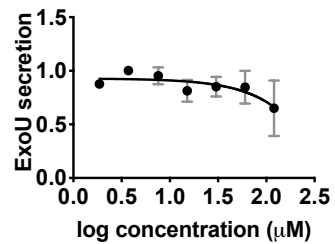
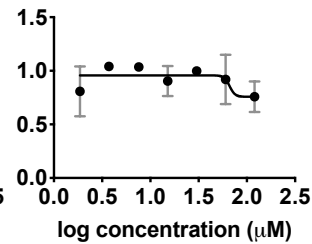
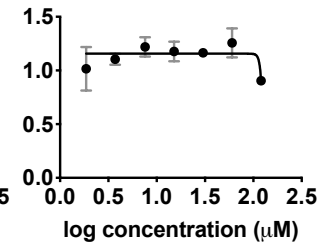
A**1EpDN 1Sar****1EpDN 2Sar****1EpDN 3Ala****1EpDN 4Ala****1EpDN 5Ala****1EpDN 6Ala****B****1EpDN 1Sar****1EpDN 2Sar****1EpDN 3Ala****1EpDN 4Ala****1EpDN 5Ala****1EpDN 6Ala**

Figure S1: 1EpDN alanine/Sarcosine scan suggests peptoid sidechains are important for biological activity. (A) Structures of 1EpDN alanine derivatives. D-form of side chain is shown in red. (B) WT *P. aeruginosa* PA103 was grown under T3SS-inducing conditions with increasing concentrations of cyclic peptomers. Secretion of T3SS cargo into the culture supernatant was assessed by precipitating secreted proteins and visualizing them with Coomassie blue. ExoU band intensities were quantified and normalized to that of the DMSO control. The results are from at least two independent experiments. Error bars are standard errors of the mean. Nonlinear curve fitting is shown to depict the trend of inhibition.

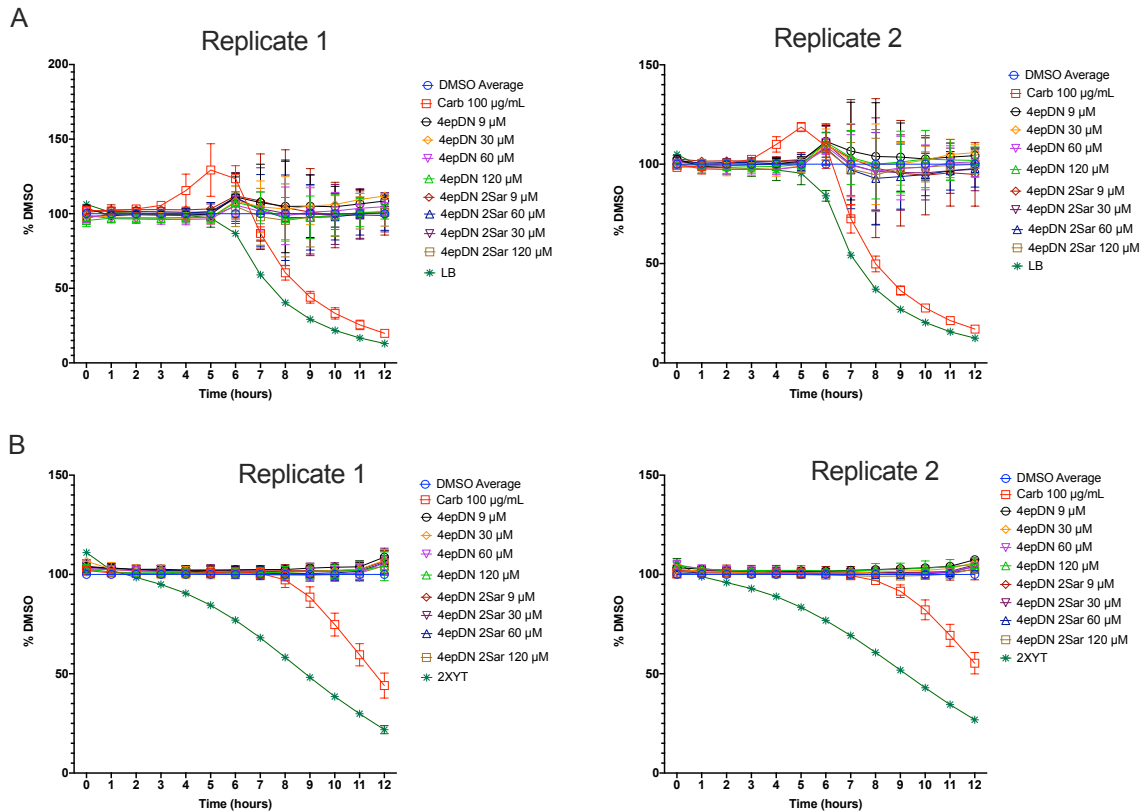


Figure S2: Cyclic peptomers do not affect bacterial viability. *P. aeruginosa* PA01 (A) or *Y. pseudotuberculosis* (B) was grown in LB or 2xYT medium at 37°C or 26°C in the presence of cyclic peptomers at 9 µM, 30 µM, 60 µM and 120 µM, equivalent volume of DMSO or Carbenicillin (100 µg/mL). Resazurin-based alamarBlue HS cell viability reagent was used to monitor metabolic activity of the bacteria over a period of 12 hrs. Fluorescence of treatment over control was plotted over time. Media only served as a control for bacterial growth. The experiment was carried out in two biological replicates with three technical replicate each.

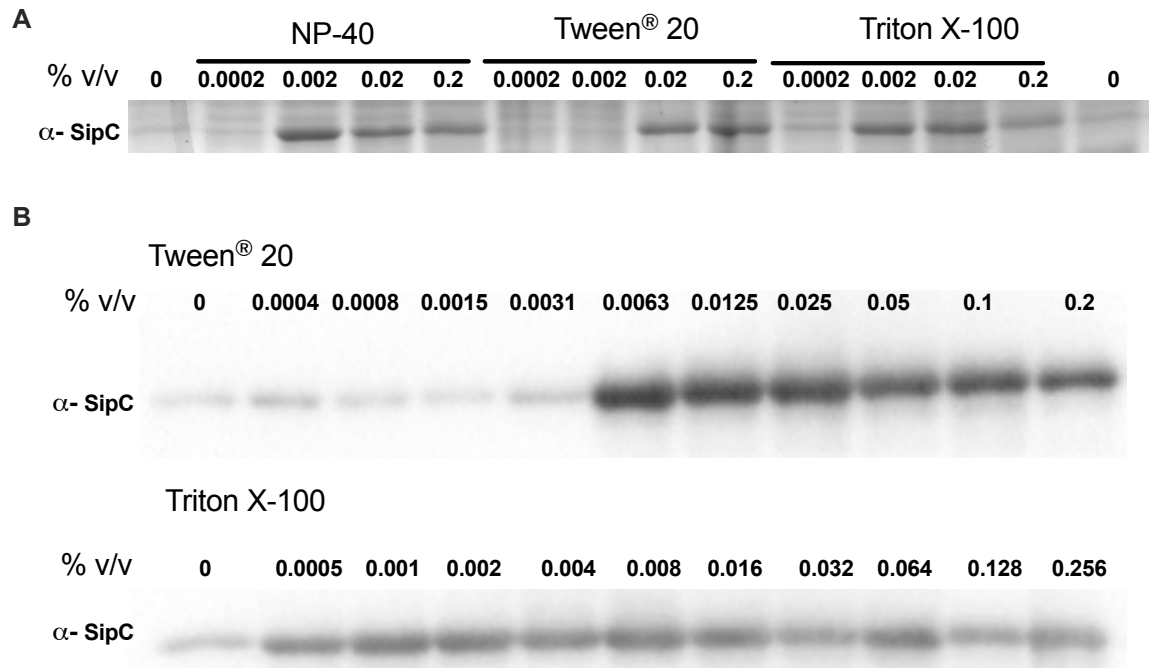
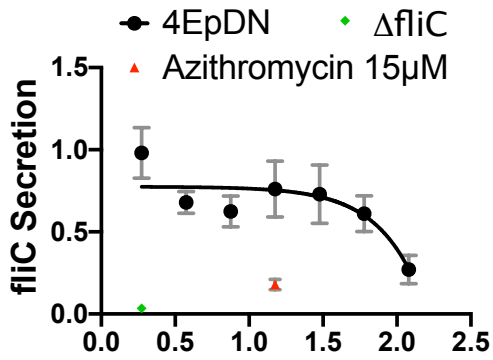


Figure S3: Secretion of *Salmonella* T3SS substrate in the presence of non-ionic detergents. Detergents without T3SS inhibitors were used to determine the highest concentration of detergent that can be added to the cultures without causing an observable effect on the T3SS. **(A)** *Salmonella enterica* Typhimurium was grown in LB with increasing concentrations of NP-40, Tween[®] 20, or Triton X-100. Secretion of SPI-1 T3SS effector SipC into the culture supernatant was assessed by precipitating secreted proteins and visualizing them with Coomassie blue. **(B)** Secretion of SipC in the presence of increasing concentrations of Tween[®] 20 or Triton X-100 was detected by Western Blot.

WT *Samonella*



$\Delta\text{SPI-1}$ *Samonella*

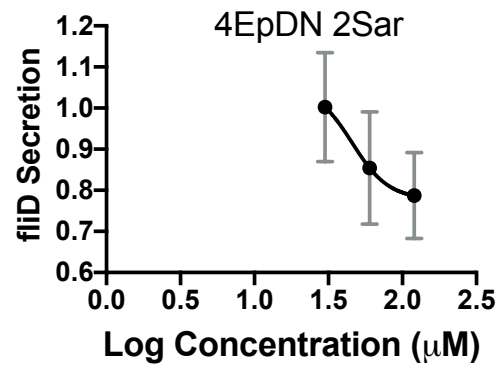
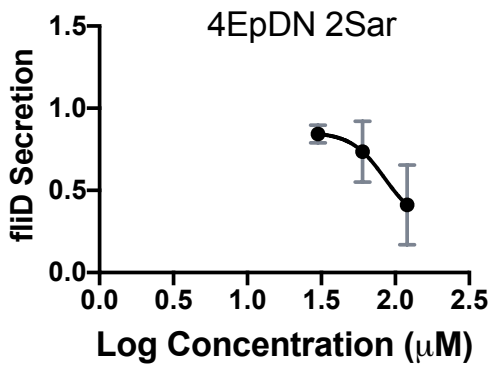
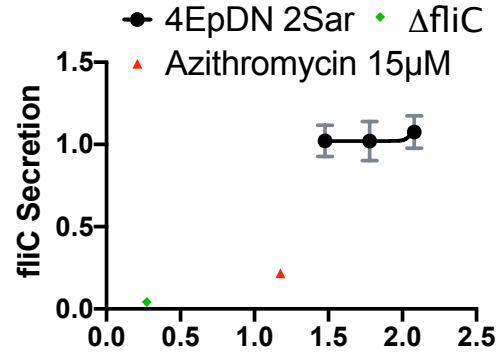
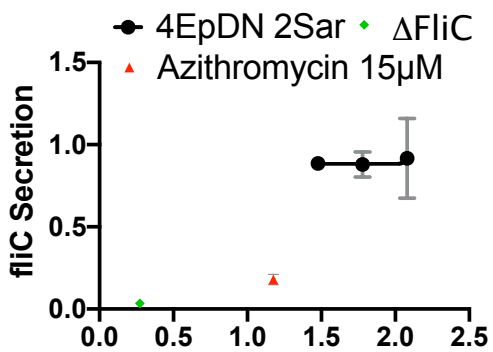
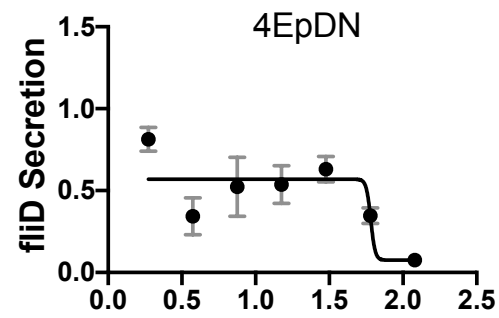
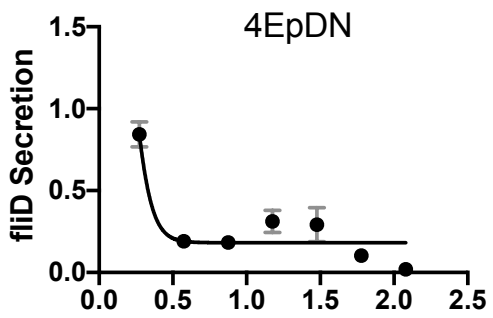
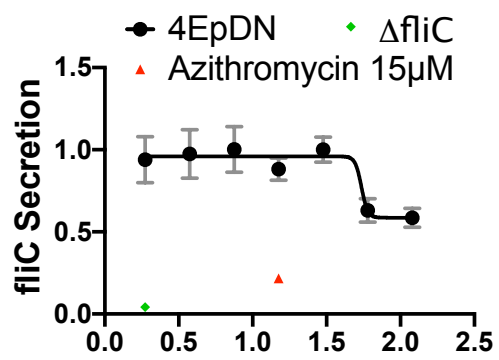


Figure S4: Cyclic peptomers do not affect secretion of flagellar proteins. *Salmonella enterica* Typhimurium was grown in LB with increasing concentrations of cyclic peptomers. Secretion of flagellar structural proteins FliC and FliD were assessed by precipitating the secreted proteins and visualizing them with Coomassie blue. A $\Delta fliC$ mutant and azithromycin (1), which inhibits flagellin secretion, were used as controls. The SPI-1 mutant and WT *Salmonella* were both tested, as flagella substrates can be secreted through both flagellar and SPI-1 T3SS systems. The results are from at least two independent experiments. Error bars are standard errors of the mean.

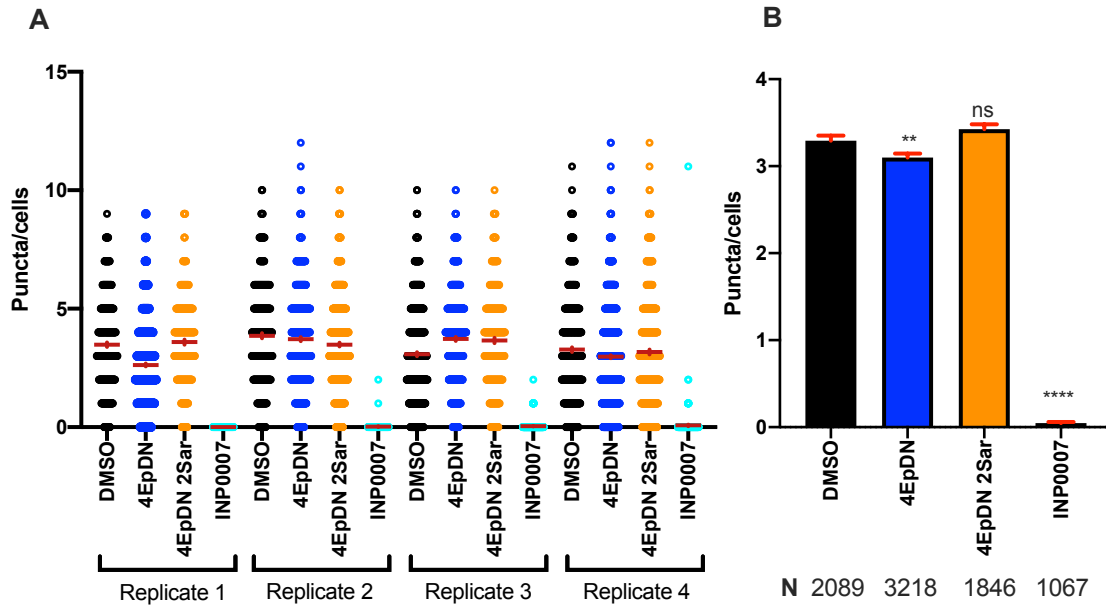


Figure S5: The cyclic peptomer 4EpDN effect on localization of the *Yersinia* T3SS basal body component YscD. *Y. enterocolitica* expressing YscD-EGFP was grown under T3SS inducing condition (low Ca²⁺) in the presence of 9 μM cyclic peptomers, 50 μM INP0007, or DMSO. **(A)** Scatter plot of YscD puncta/cell for four replicates. Mean ±SEM was shown in red. Width of distribution of points is proportional to the number of data points at the Y value. **(B)** Mean number of puncta/cell after treatment for all replicates combined ±SEM. Data represents four independent experiments. Non-parametric Kruskal-Wallis test with Dunn's multiple-comparison test was used. ****, P < 0.0001; **, P < 0.005; ns: not significant.

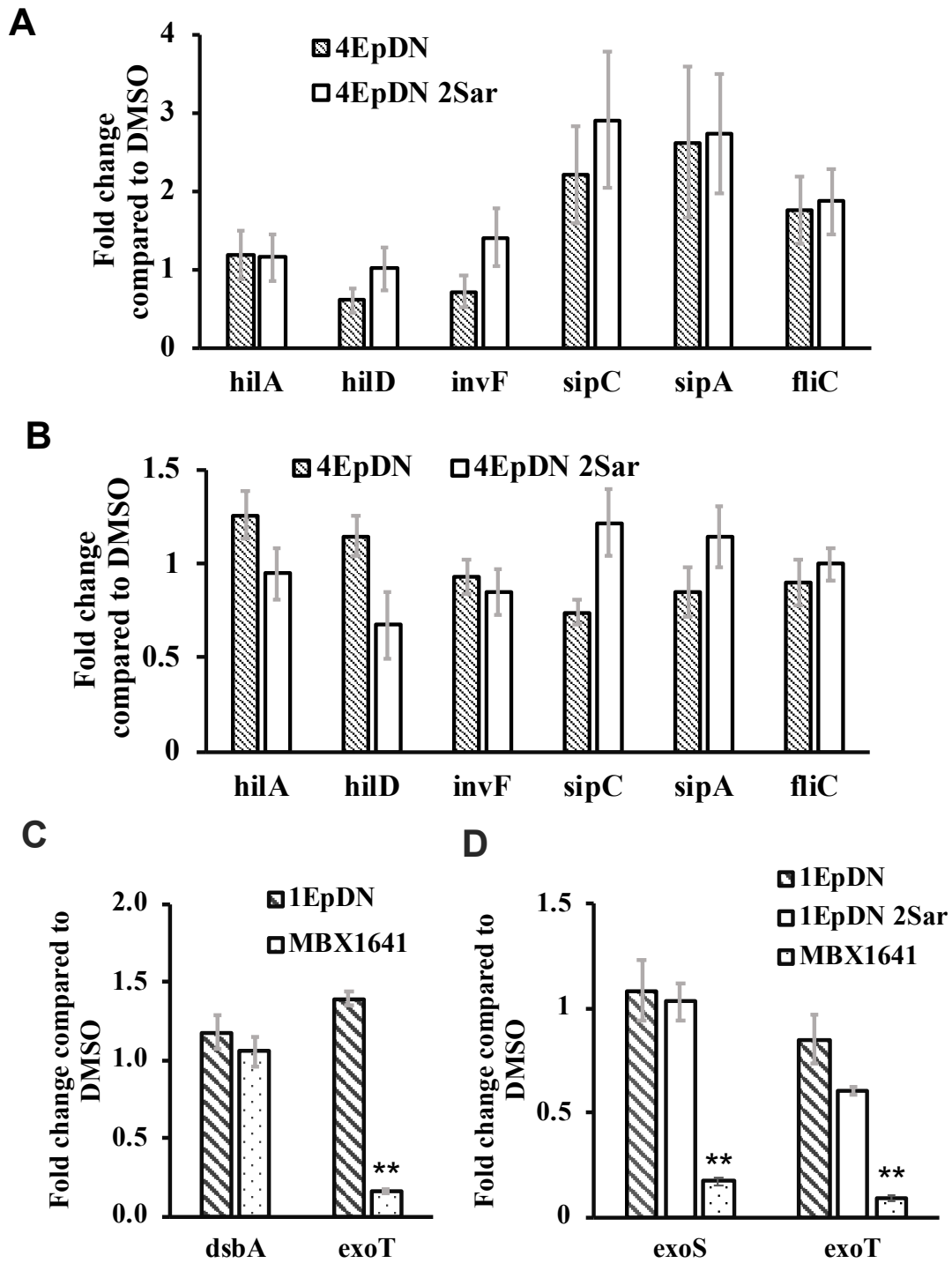


Figure S6: Cyclic peptomers do not affect transcription of T3SS genes in *Salmonella* and *P. aeruginosa*. *Salmonella enterica* Typhimurium was grown in LB with 300 mM NaCl in the presence of 9 μ M cyclic peptomers or DMSO. Samples were taken 2 hrs (A)

and 4 hrs (**B**) after addition of compounds at 37°C and expression of flagellar (*fliC*) and injectisome T3SS (*hilA*, *hilD*, *invF*, *sipC*, *sipA*) genes were assessed using qPCR. *P. aeruginosa* PA103 (**C**) or PA01 (**D**) was grown in low calcium media in the presence of 60M cyclic peptomers or DMSO. Samples were collected 3 hrs after induction for qPCR analysis. The phenoxyacetamide MBX1641 (2), a known T3SS inhibitor predicted to inhibit type III secretion by binding to the T3SS needle subunit (3), was used as a control. Data are from two to three replicates, analyzed by one-way ANOVA with Dunnett's multiple-comparison test. **, $P < 0.01$.

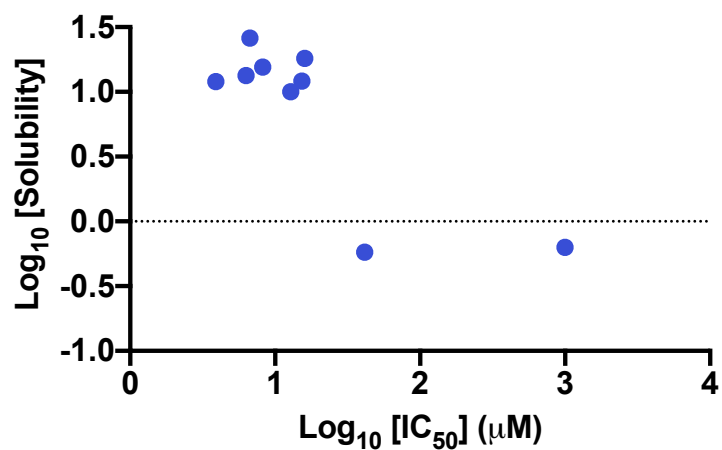


Figure S7: Relationship between solubility and activity of cyclic peptomers. IC₅₀ of stereoisomers and their solubility (table S1) were plotted on a log₁₀ scale. Average solubility was used when the solubility was measured in different conditions.

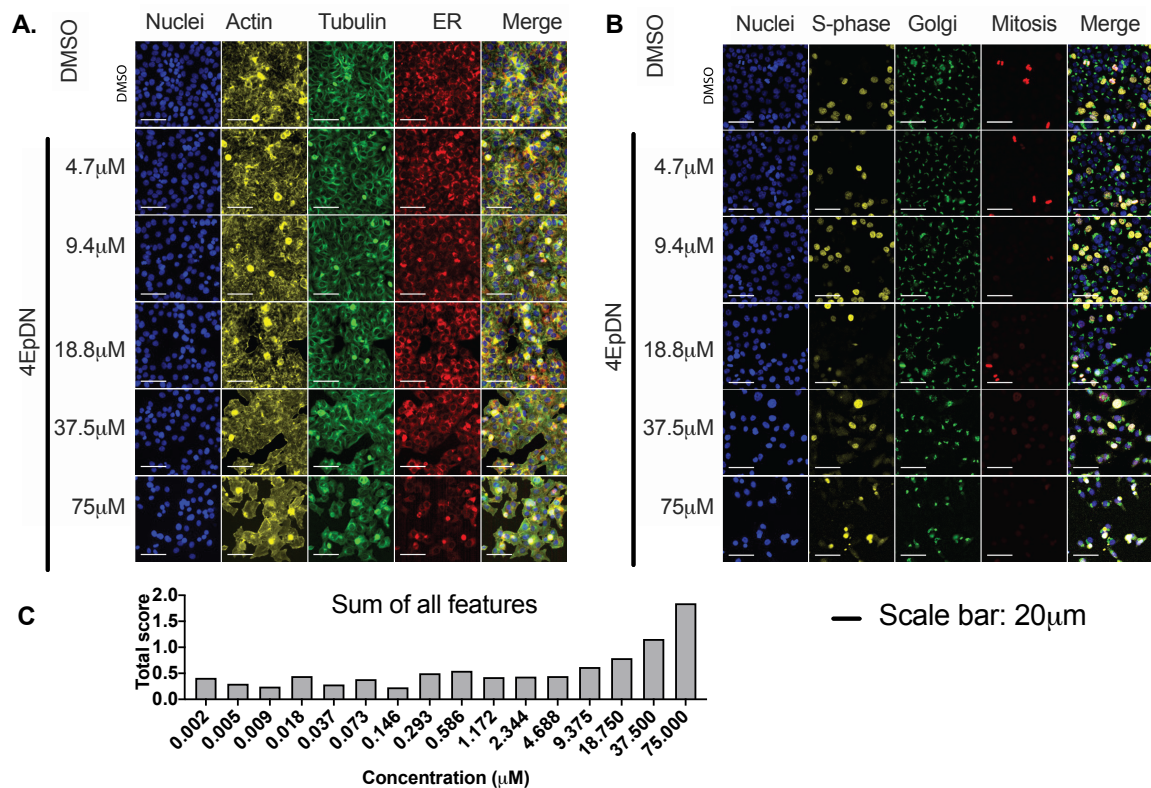
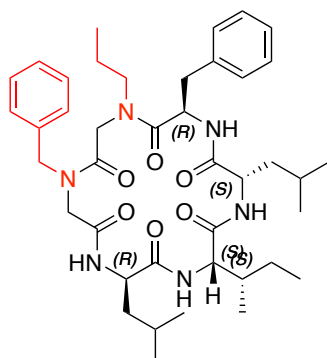


Figure S8: Effect of cyclic peptomers on HeLa cells. HeLa cells were incubated with compounds for 48 hrs. Cells were then stained with: **(A)** Stain Set 1: Hoechst, FITC-alpha tubulin, rhodamine-phalloidin (actin), and Calnexin (ER induced protein); or **(B)** Stain set 2: Hoechst, EdU-rhodamine (S-phase detection), anti-Phosphohistone H3 (mitosis marker), and GM130 (Golgi matrix protein). Representative images of cells treated with different concentrations of 4EpDN or DMSO are shown. **(C)** Quantification of all cell features for 4EpDN-treated cells. The total CP score is the square root of sum of square of the difference between treatment and DMSO for all measured features.

Figure S9: Characterization of cyclic peptomers. Drawn structures, SMILE structures, molecular weight, LCMS Spectra, and $^1\text{H-NMR}$ Spectra are shown.

1EpDN



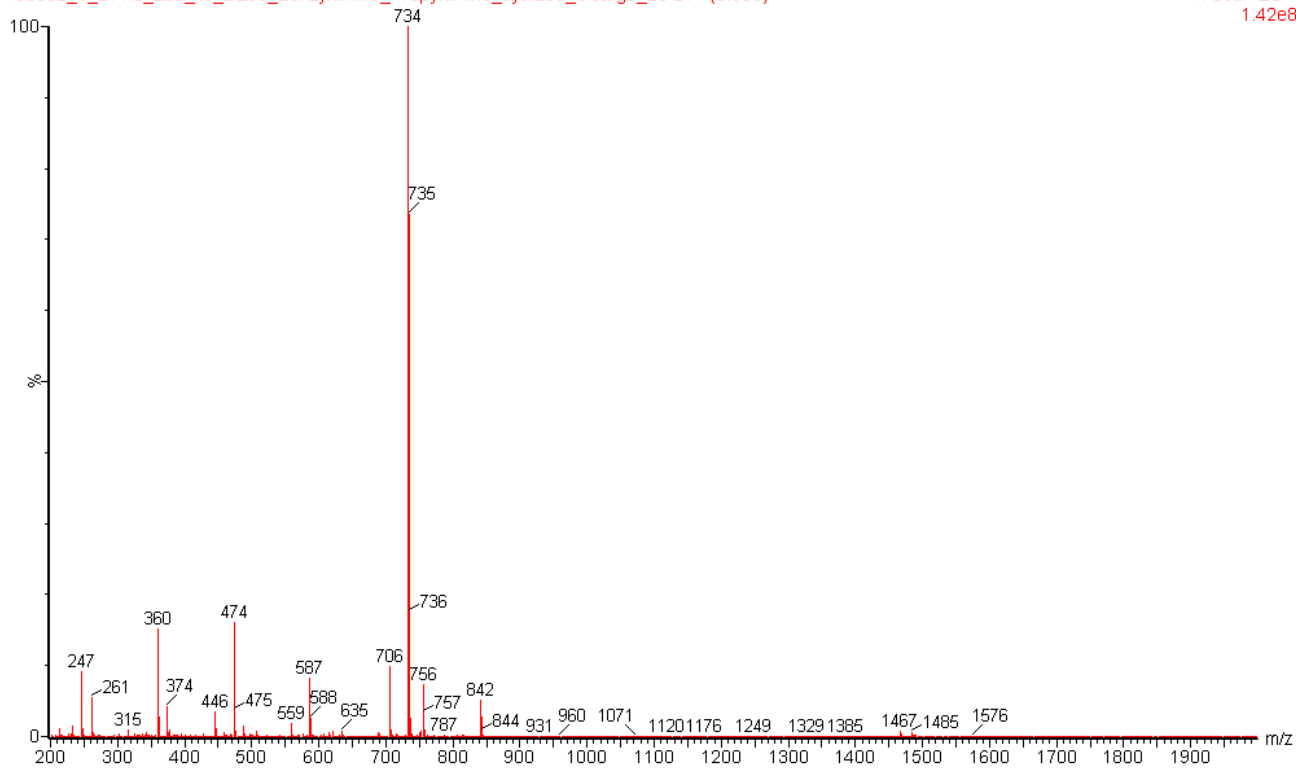
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Molecular Weight: 732.97

SMILE structure:

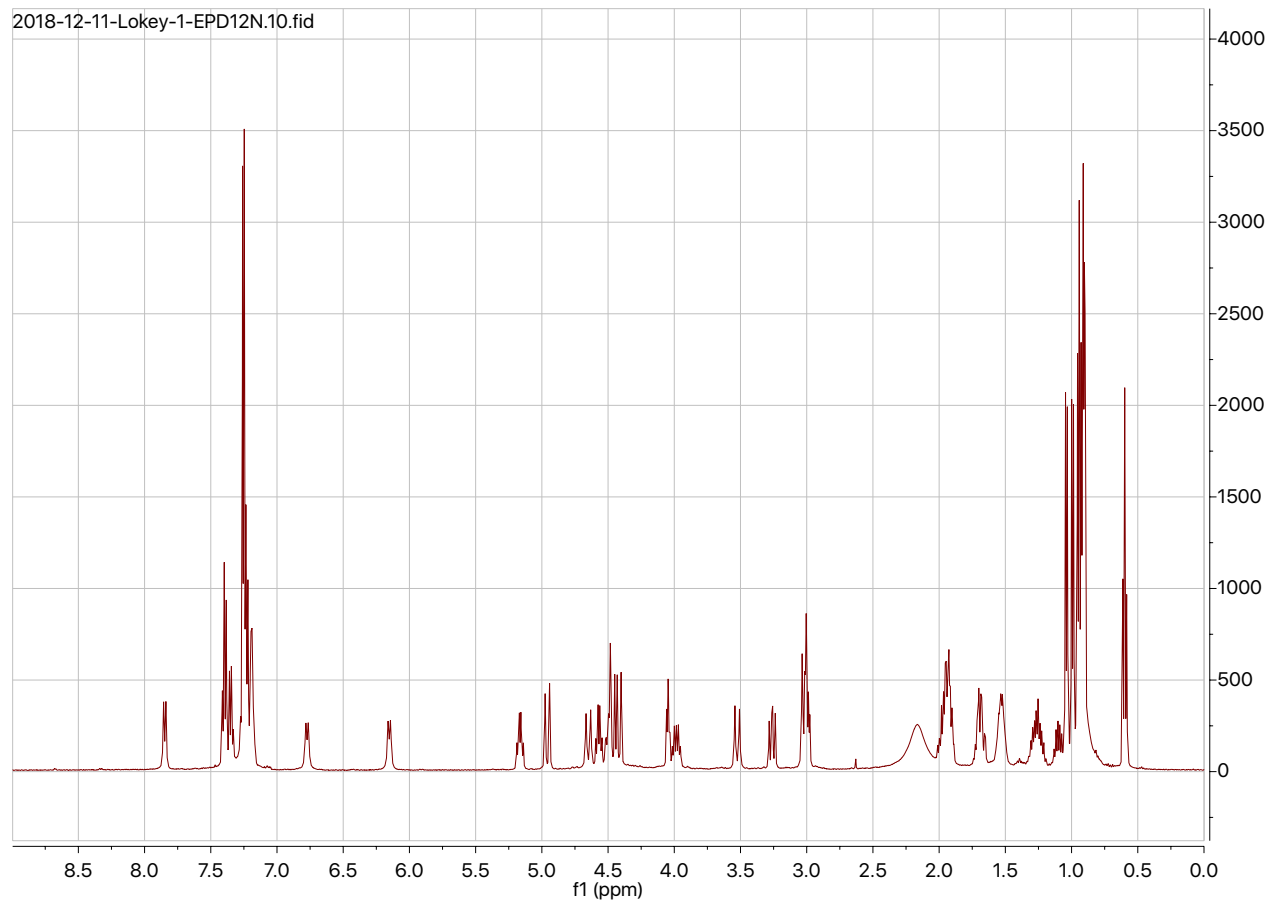
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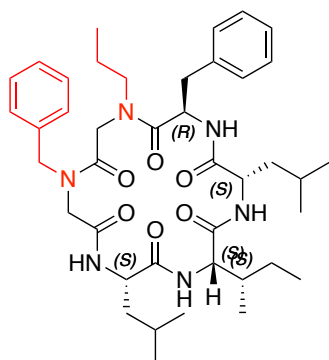
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1EpDN (^1H NMR, 500 MHz, CDCl_3)



2EpDN



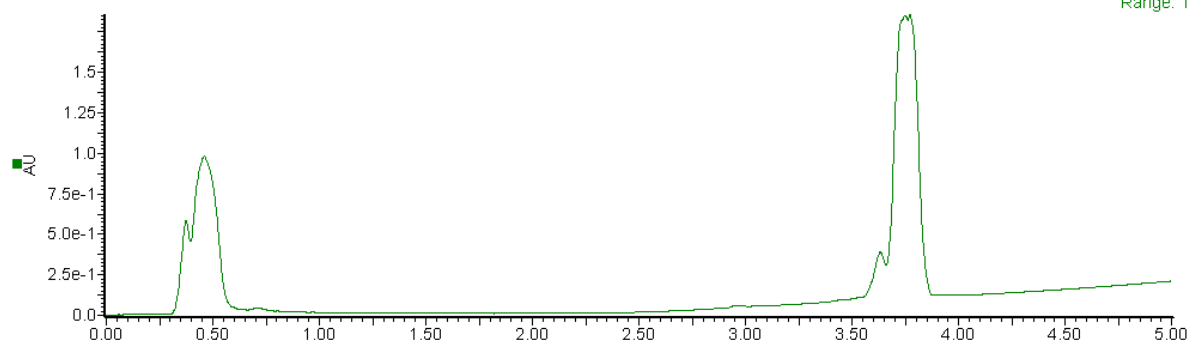
Exact Mass: 732.46
Molecular Weight: 732.97

SMILE structure:

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)N1)=O)N[C@@H](C(N(CC(N(CC2=CC=CC=C2)CC(N
[C@@H](CC(C)C)C1=O)=O)=O)CCC)=O)CC3=CC=CC
=C3
```

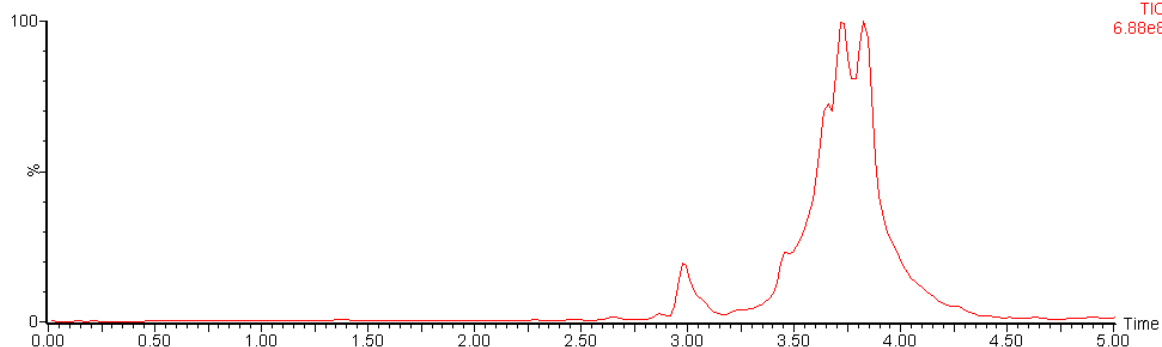
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2: Diode Array
Range: 1.857



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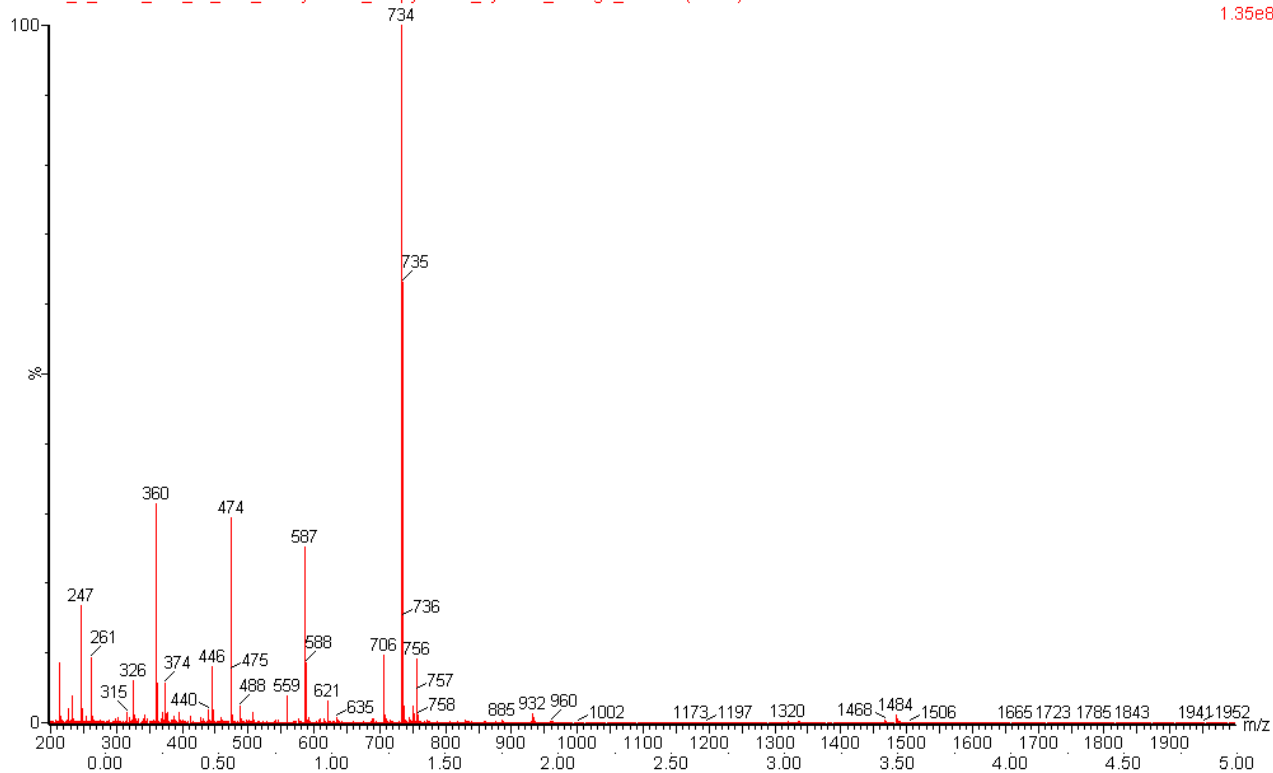
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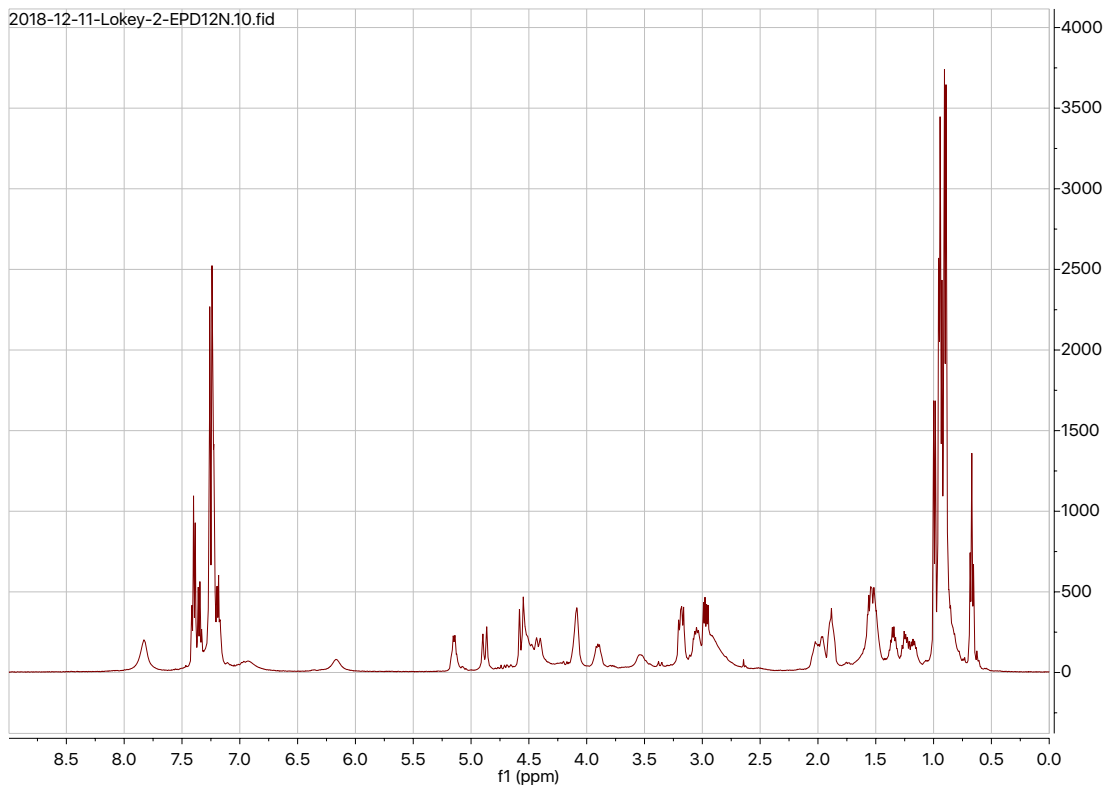
LCMS spectra

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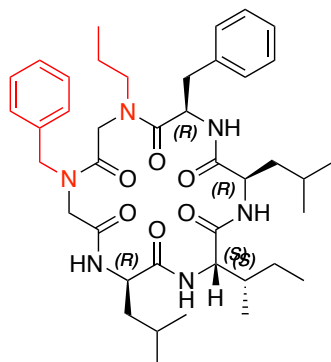
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2EpDN (^1H NMR, 500 MHz, CDCl_3)



3EpDN



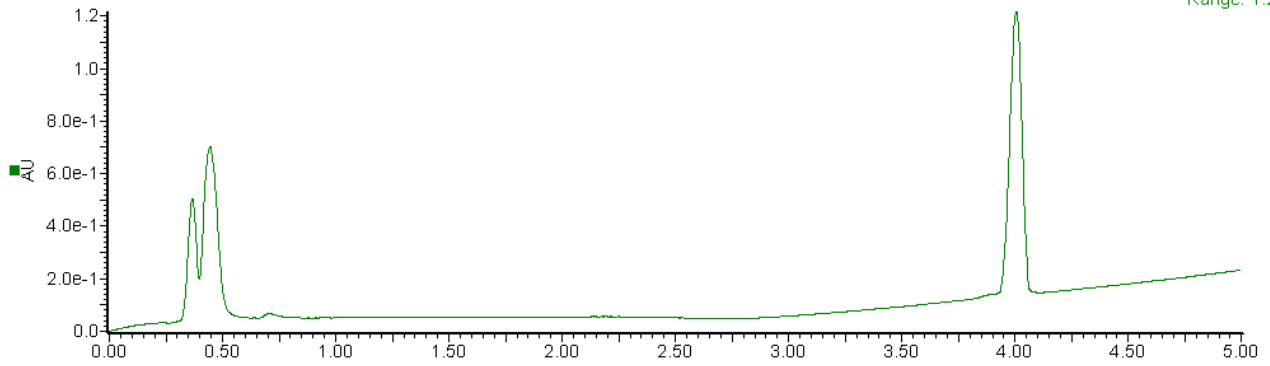
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Molecular Weight: 732.97

SMILE structure:

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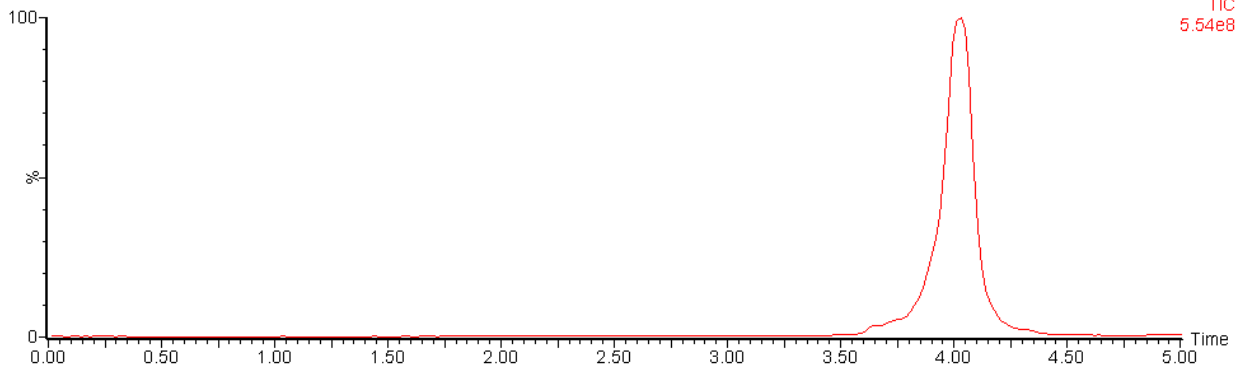
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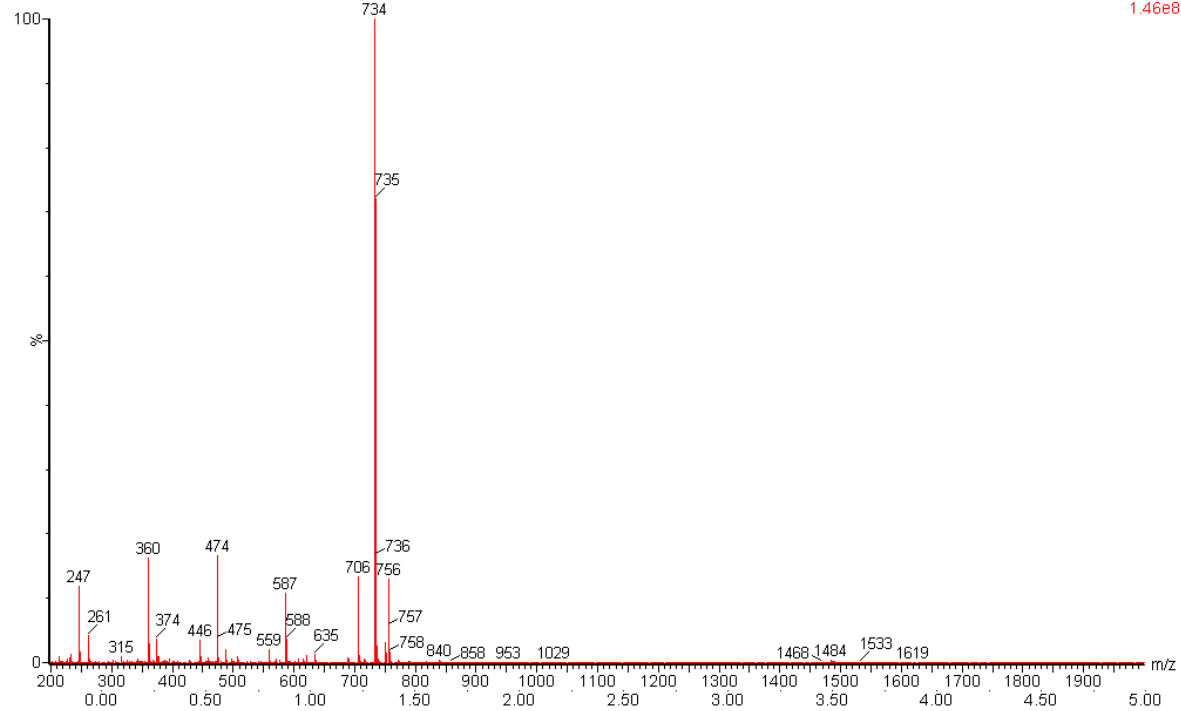
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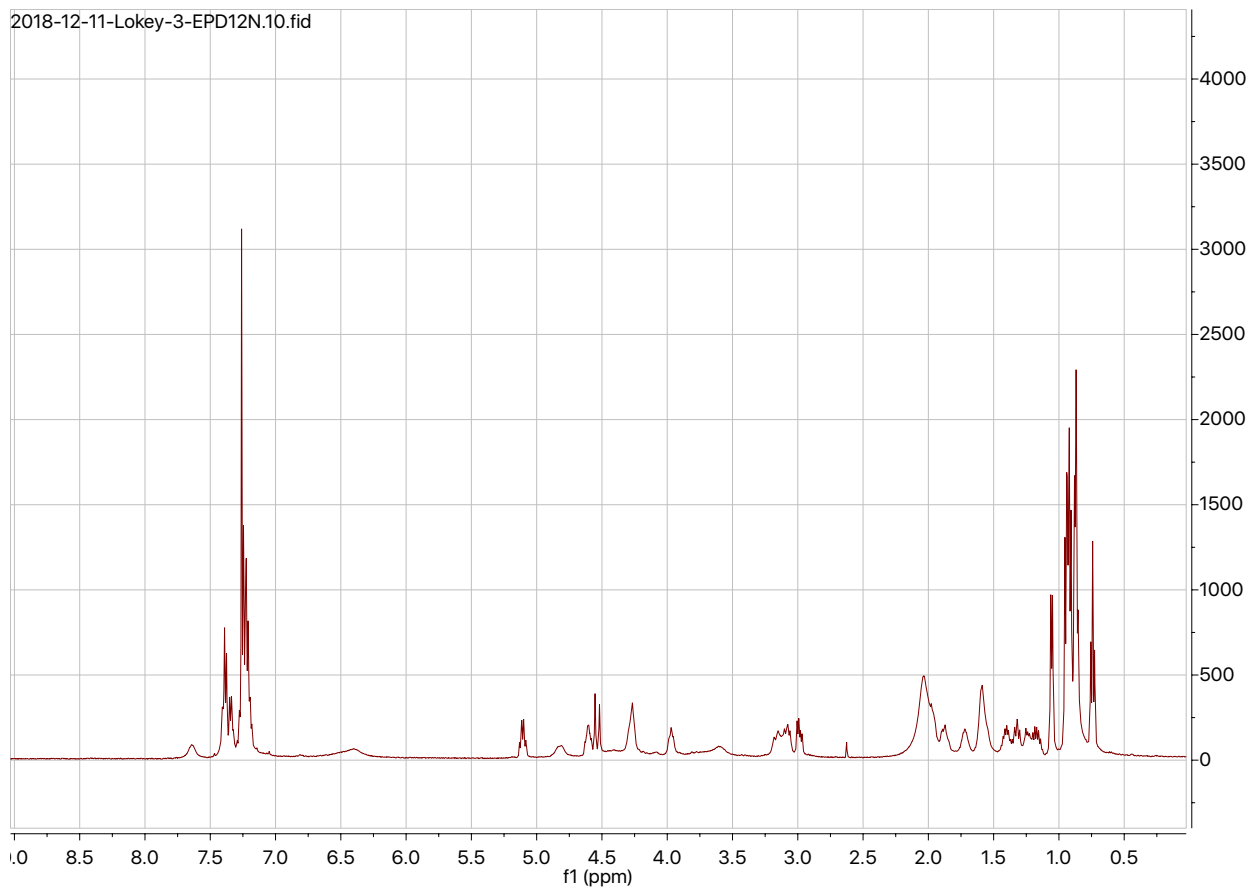
LCMS spectra

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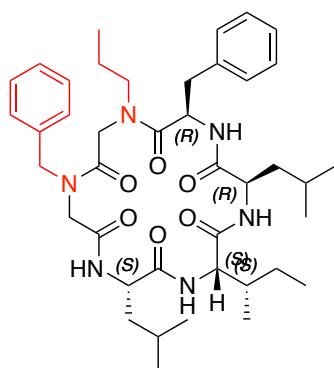
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3EpDN (^1H NMR, 500 MHz, CDCl_3)



4EpDN



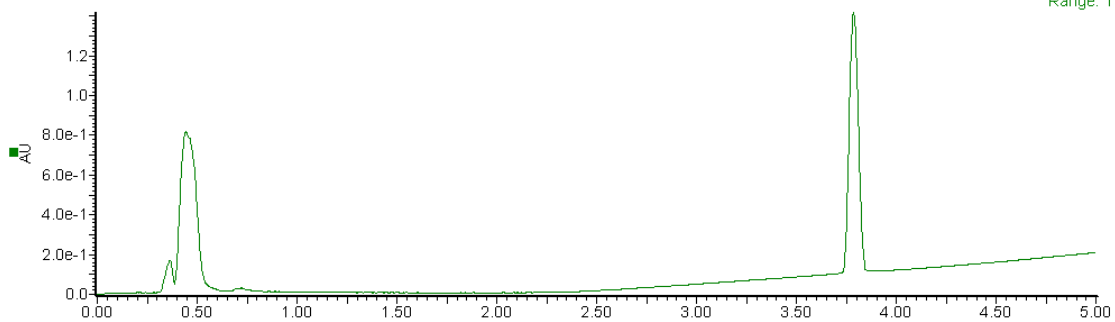
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Molecular Weight: 732.97

SMILE structure:

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)=O)N[C@@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@@H](
CC(C)C)C1=O)=O)=O)CCC=O)CC3=CC=CC=C3
```

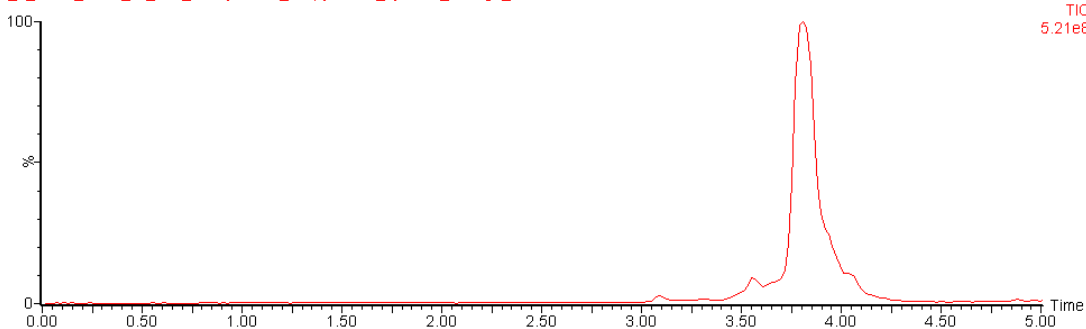
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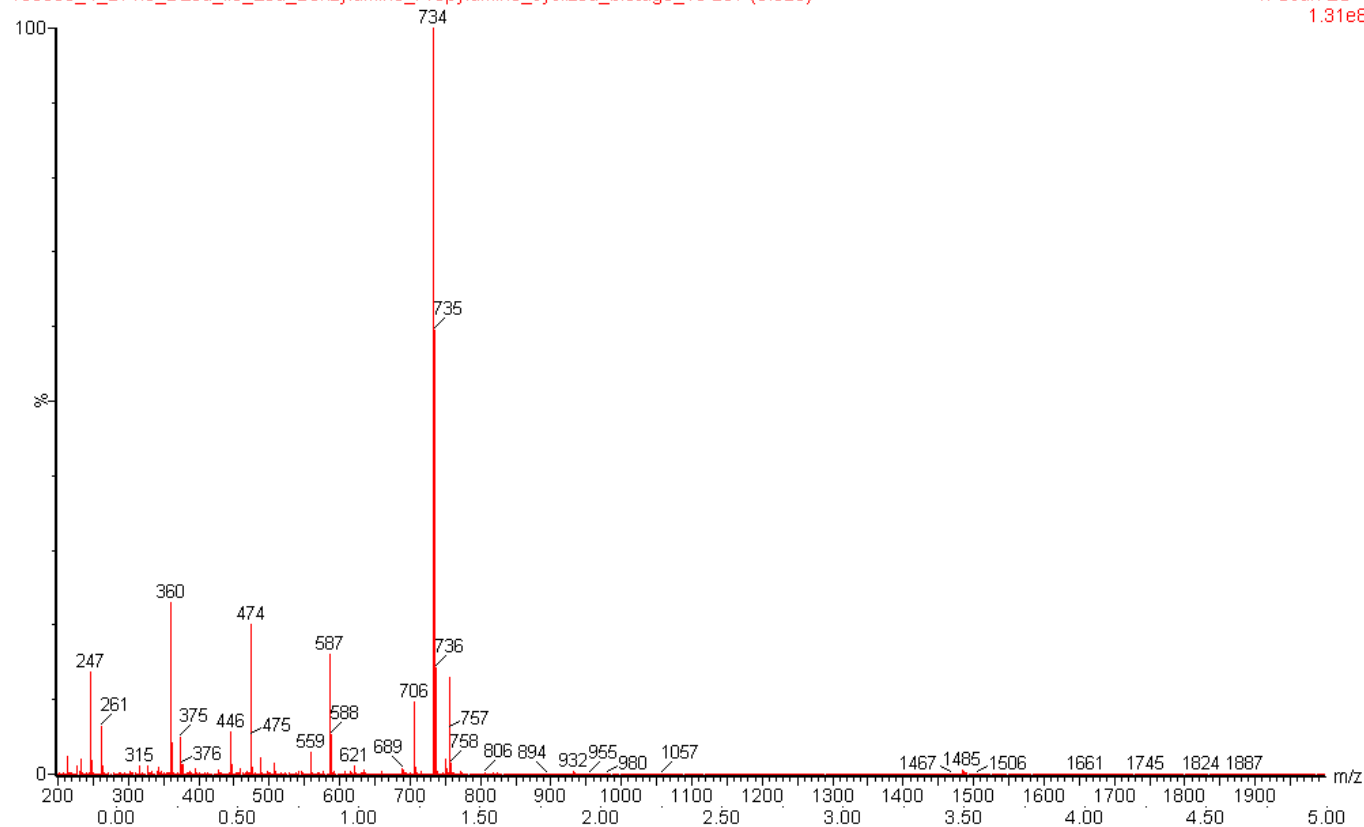
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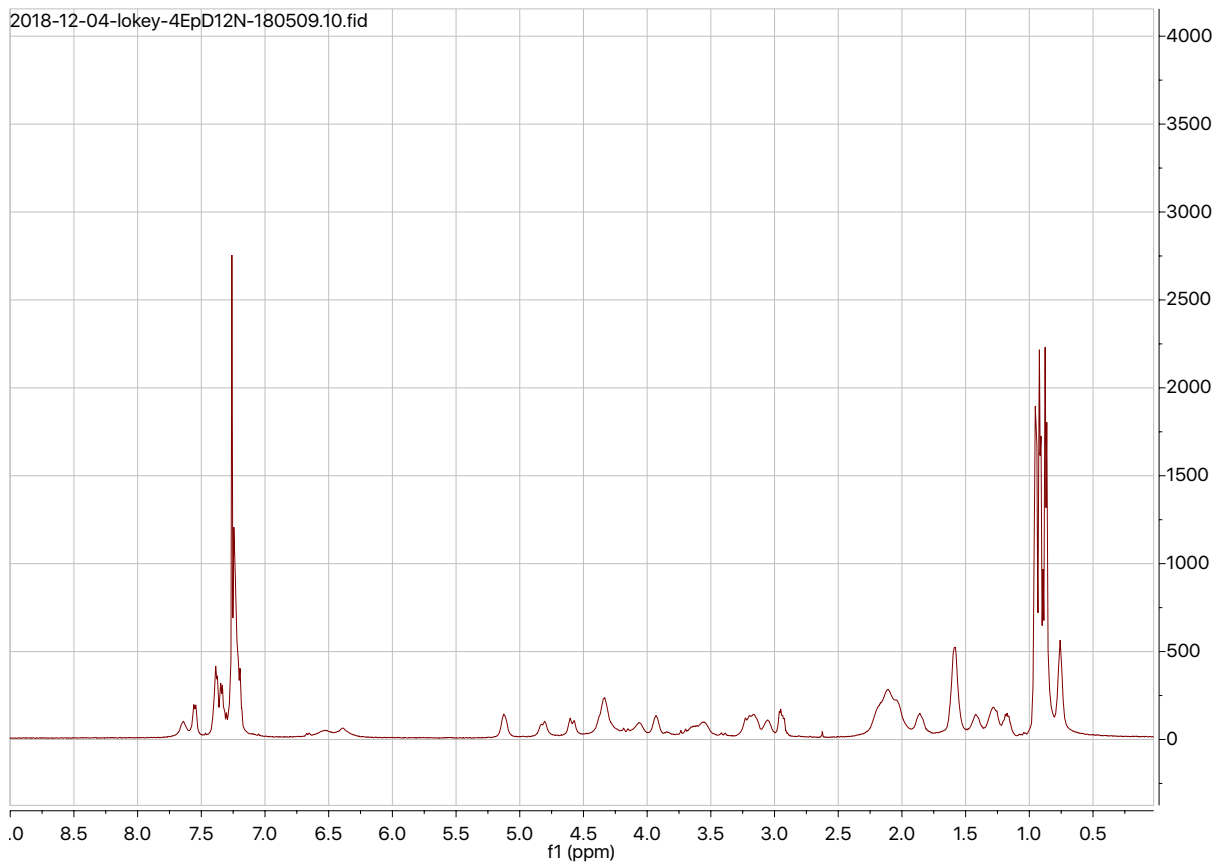
LCMS spectra

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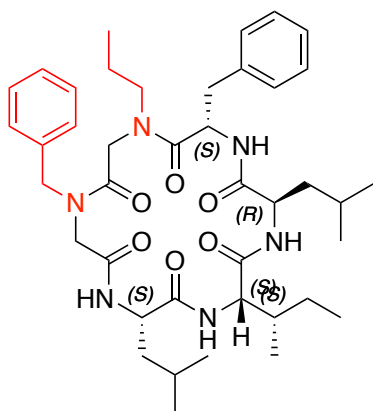
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4EpDN (^1H NMR, 500 MHz, CDCl_3)



5EpDN



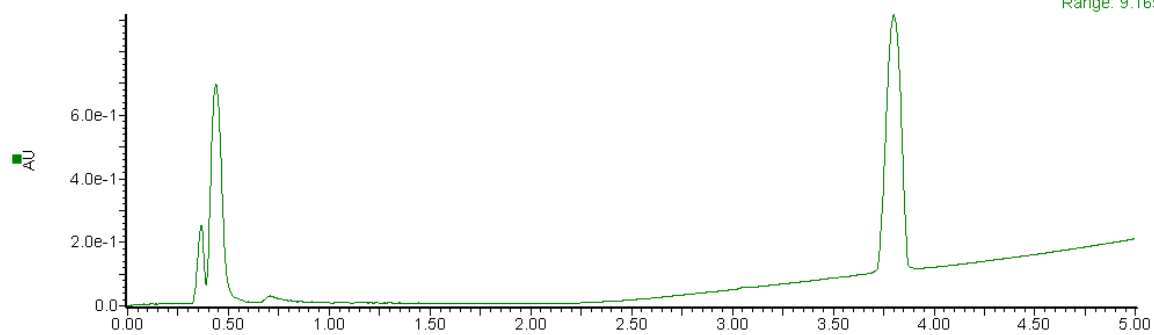
Exact Mass: 732.46
Molecular Weight: 732.97

SMILE structure:

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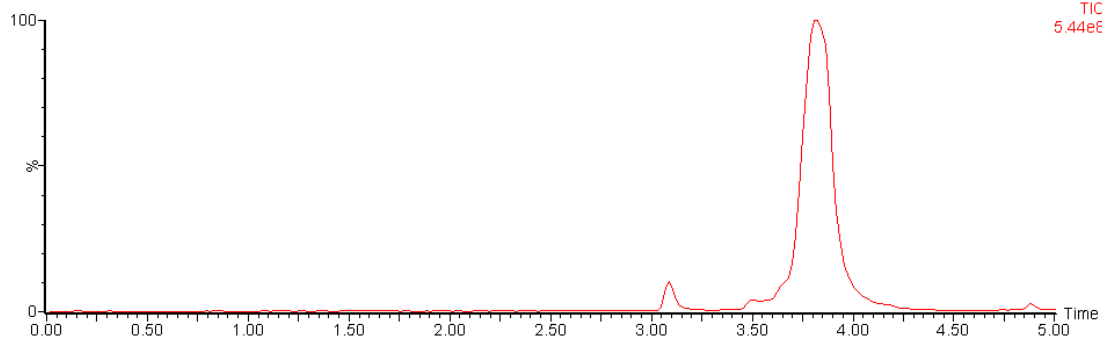
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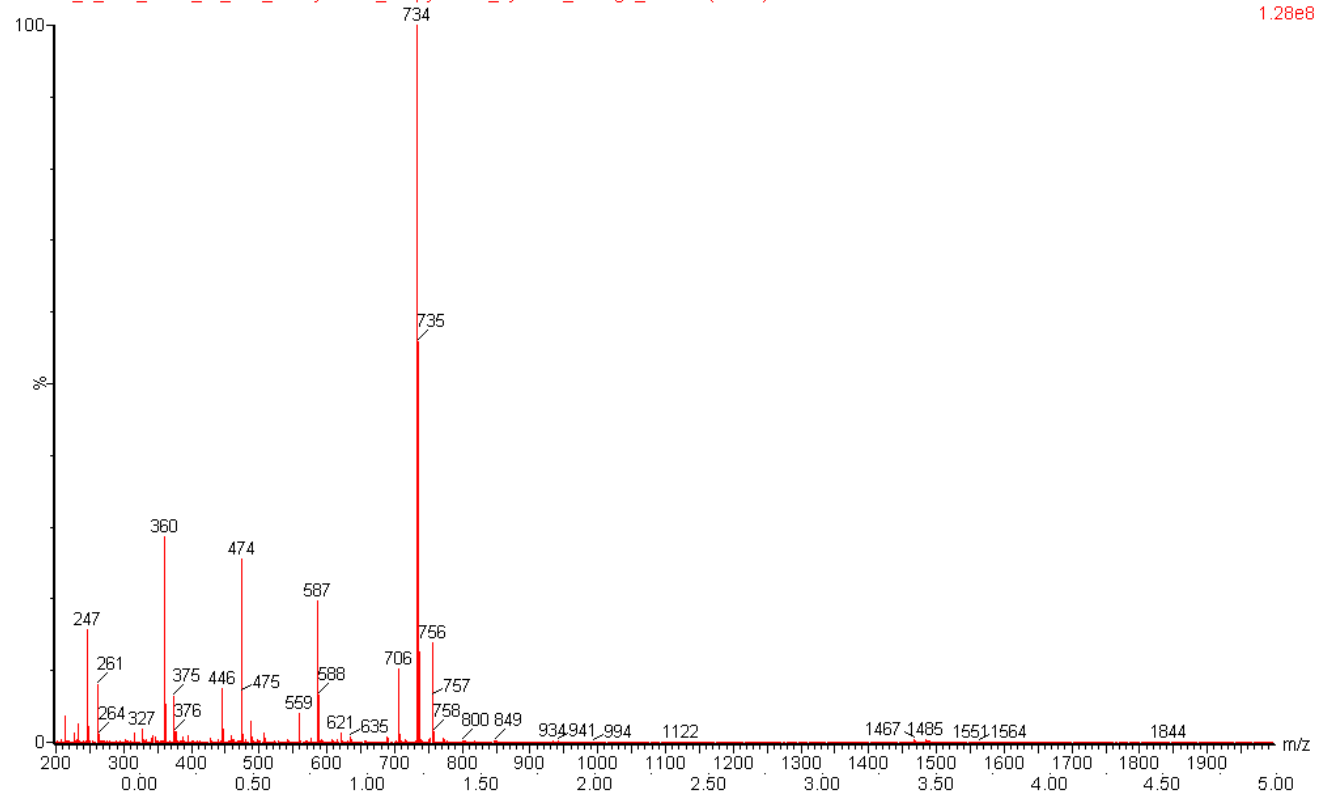
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TIC
5.44e8

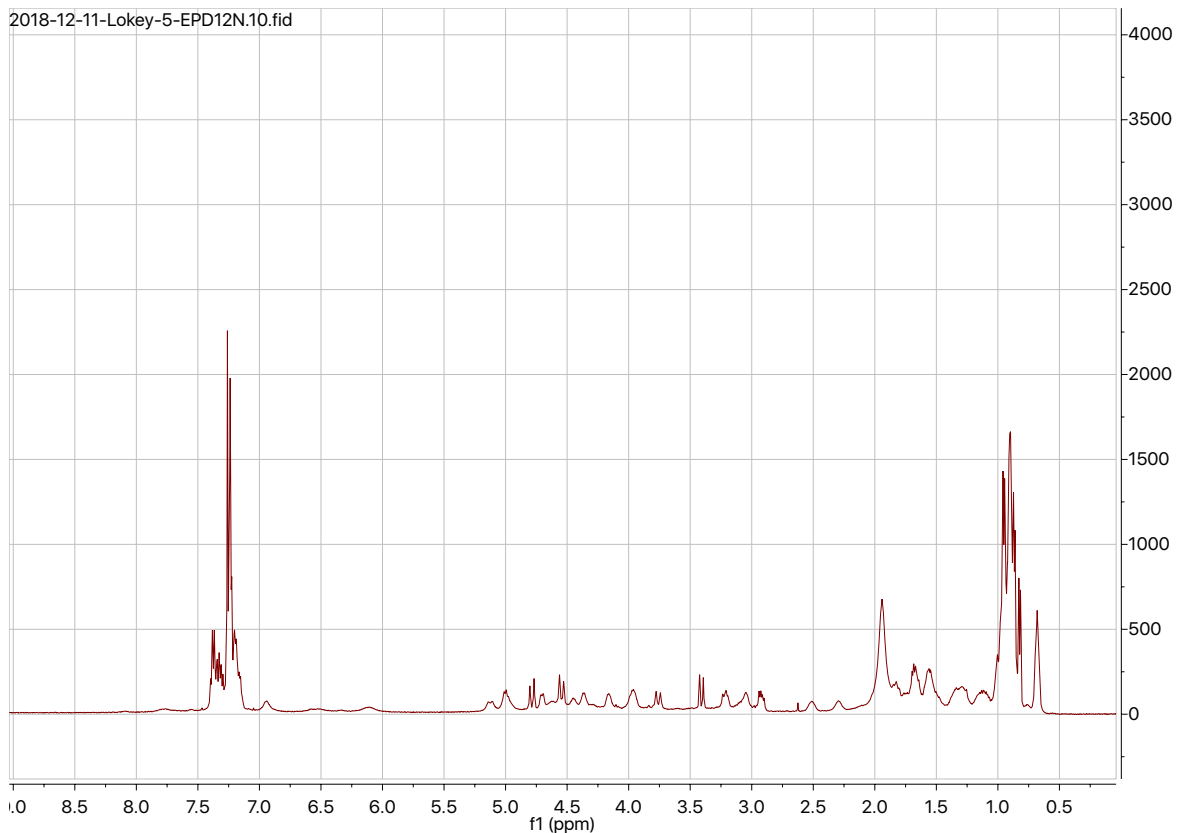


180503_5_Phe_DLeu_Ile_Leu_Benzylamine_Propylamine_cyclized_biotage_12 206 (3.807)

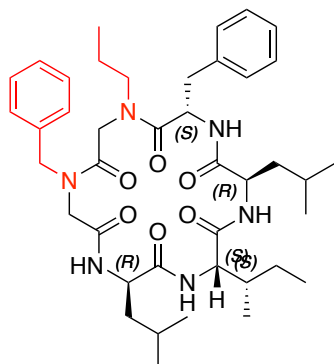
1: Scan ES+
1.28e8



5EpDN (¹H NMR, 500 MHz, CDCl₃)



6EpDN



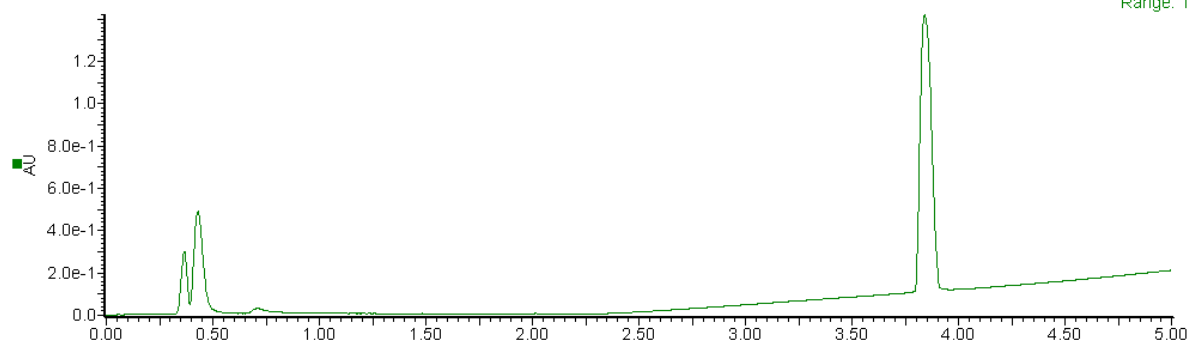
Exact Mass: 732.46
Molecular Weight: 732.97

SMILE structure:

```
O=C([C@@H](CC(C)C)NC([C@@]([C@@H](C)CC)([H])N1)=O)N[C@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@H](CC(C)C)C1=O)=O)=O)CCC)=O)CC3=CC=CC=C3
```

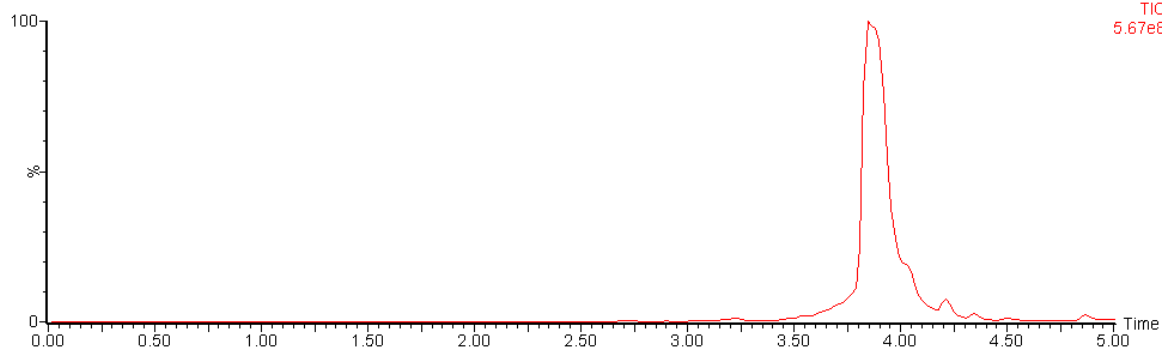
180504_6_Phe_DLeu_Ile_DLeu_Benzylamine_Propylamine_cyclized_3_biotage_16

2: Diode Array
Range: 1.422



180504_6_Phe_DLeu_Ile_DLeu_Benzylamine_Propylamine_cyclized_3_biotage_16

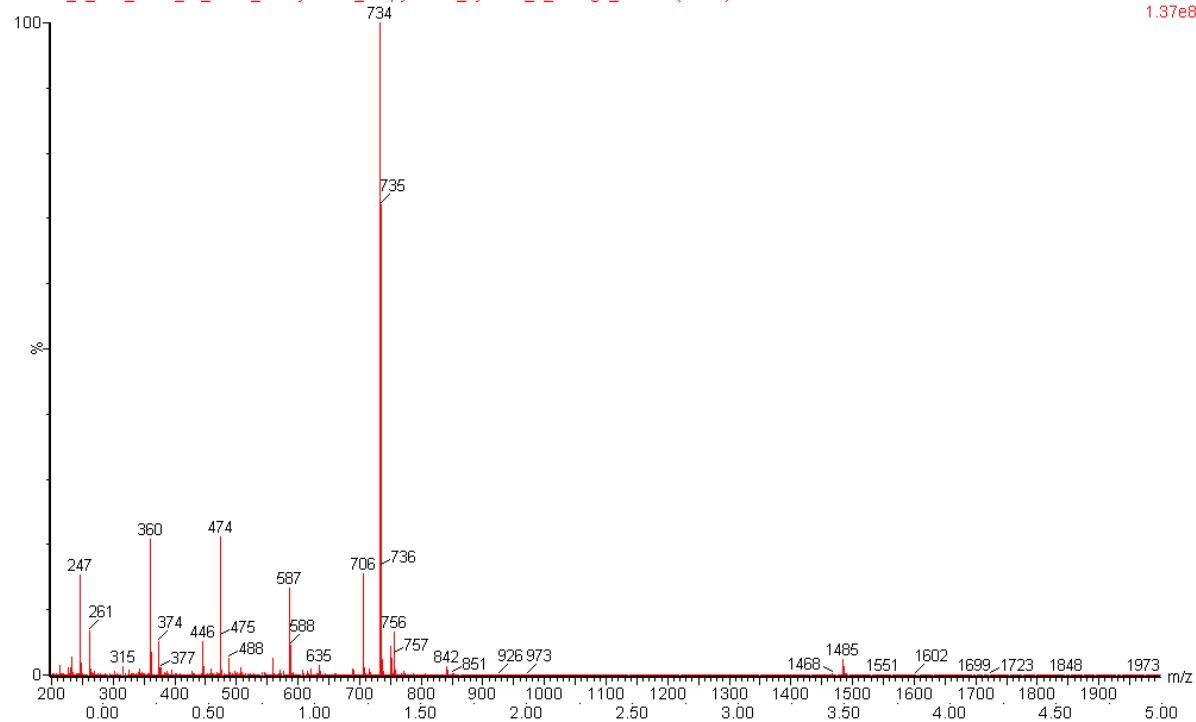
1: Scan ES+
TIC
5.67e8



LCMS spectra

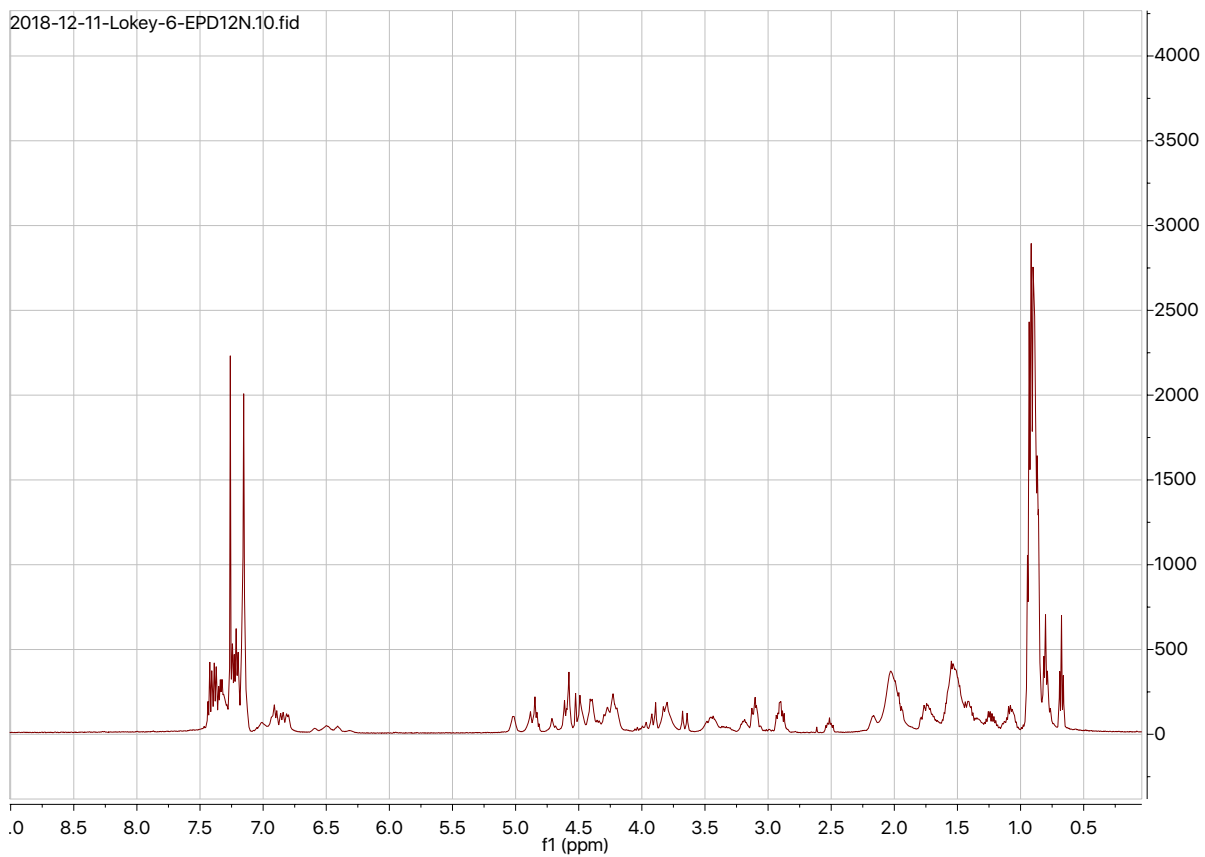
180504_6_Phe_DLeu_Ile_DLeu_Benzylamine_Propylamine_cyclized_3_biotage_16 208 (3.844)

1: Scan ES+
1.37e8

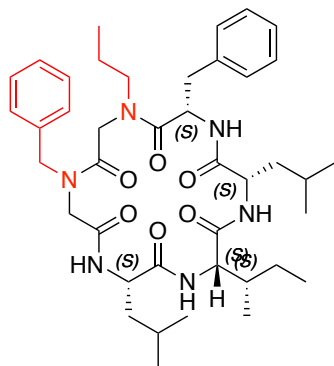


6EpDN (^1H NMR, 500 MHz, CDCl_3)

2018-12-11-Lokey-6-EPD12N.10.fid



7EpDN



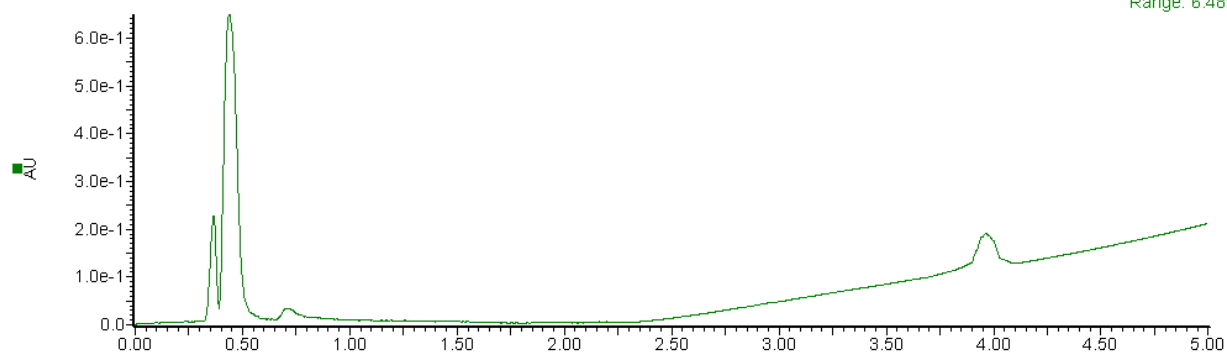
Exact Mass: 732.46
Molecular Weight: 732.97

SMILE structure:

```
O=C([C@H](CC(C)C)NC([C@@]([C@@H](C)CC)([H])N1)=O)N[C@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@@H](CC(C)C)C1=O)=O)=O)CC)=O)CC3=CC=CC=C3
```

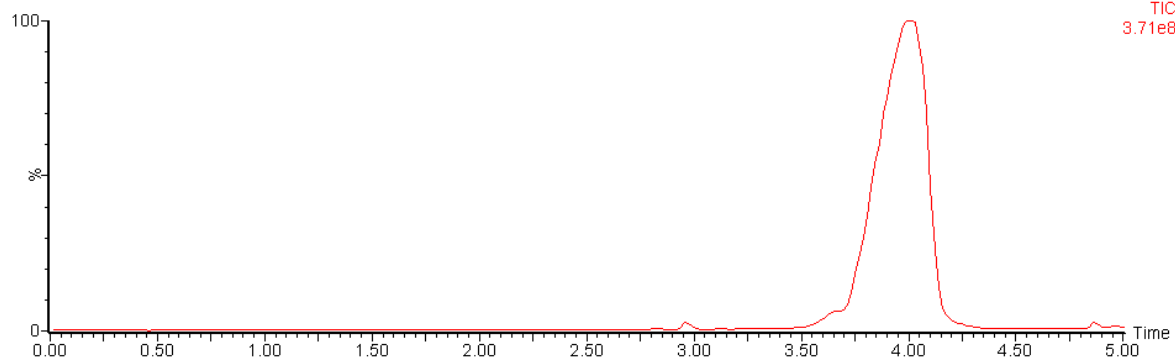
180503_7_Phe_Leu_Ile_Leu_Benzylamine_Propylamine_cyclized_biotage_16

2: Diode Array
Range: 6.489e-1



180503_7_Phe_Leu_Ile_Leu_Benzylamine_Propylamine_cyclized_biotage_16

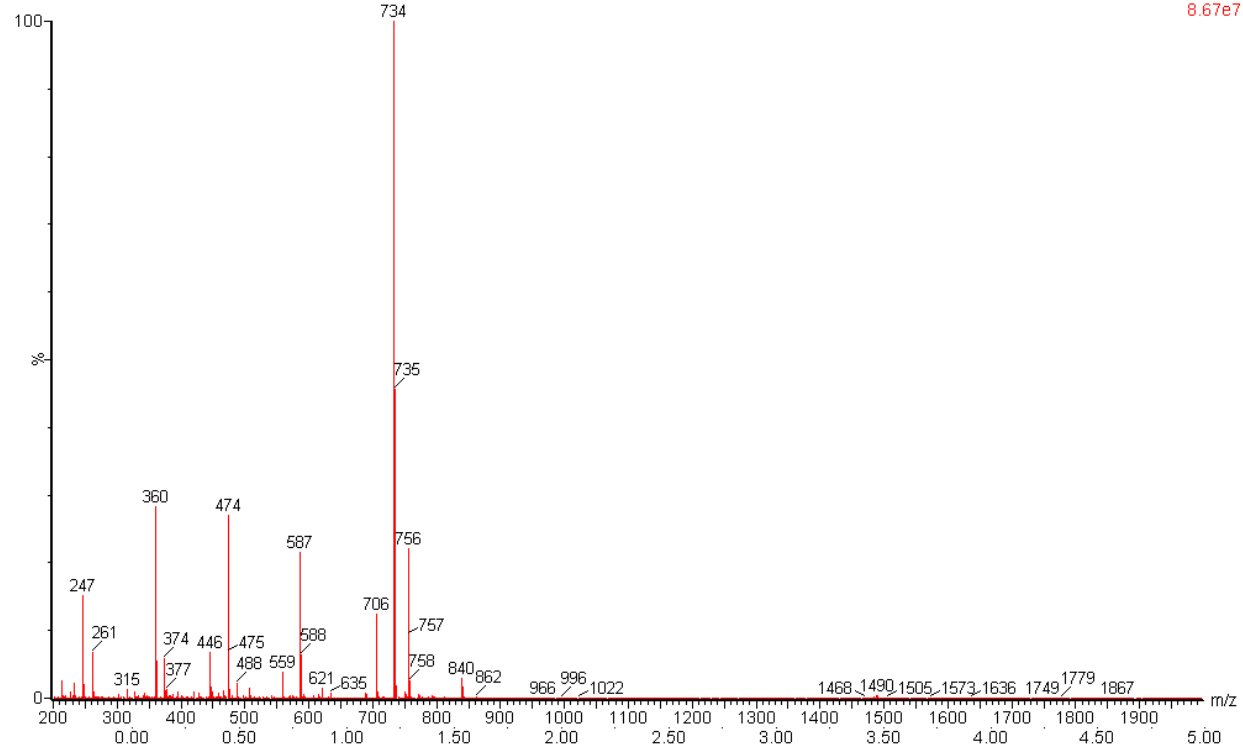
1: Scan ES+
TIC
3.71e8



LCMS spectra

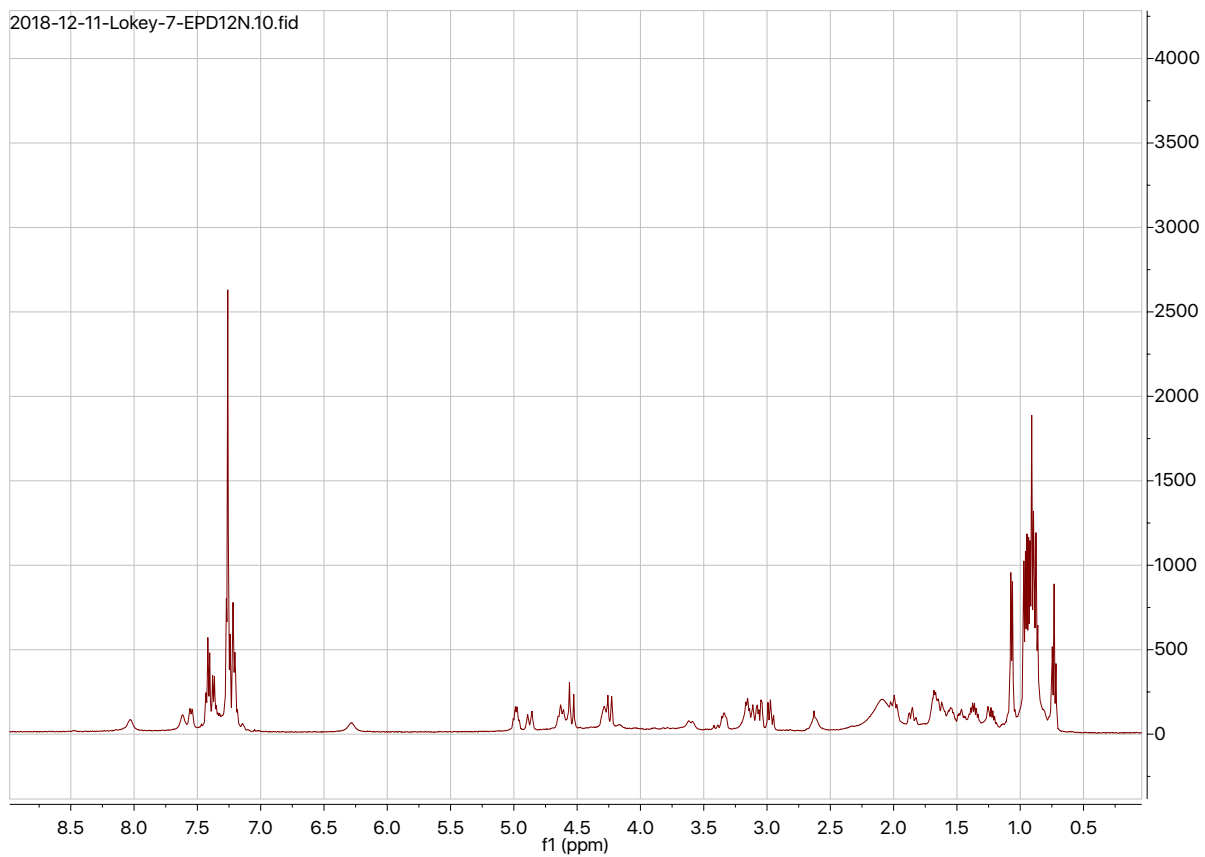
180503_7_Phe_Leu_Ile_Leu_Benzylamine_Propylamine_cyclized_biotage_16 217 (4.011)

1: Scan ES+
8.67e7

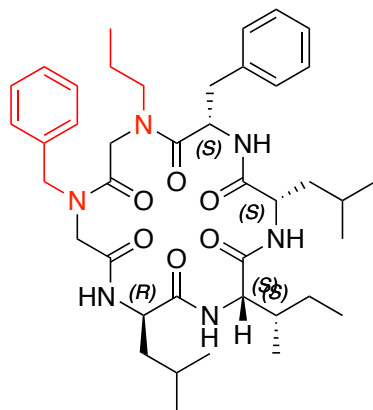


7EpDN (^1H NMR, 500 MHz, CDCl_3)

2018-12-11-Lokey-7-EPD12N.10.fid



8EpDN



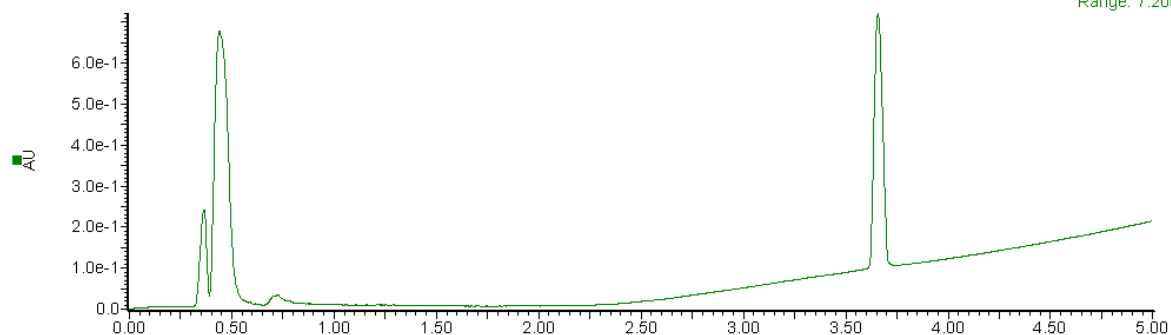
Exact Mass: 732.46
Molecular Weight: 732.97

SMILE structure:

```
O=C([C@H](CC(C)C)NC([C@@]([C@@H](C)CC)([H])N1)=O)N[C@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@H](CC(C)C)C1=O)=O)=O)CCC)=O)CC3=CC=C  
C=C3
```

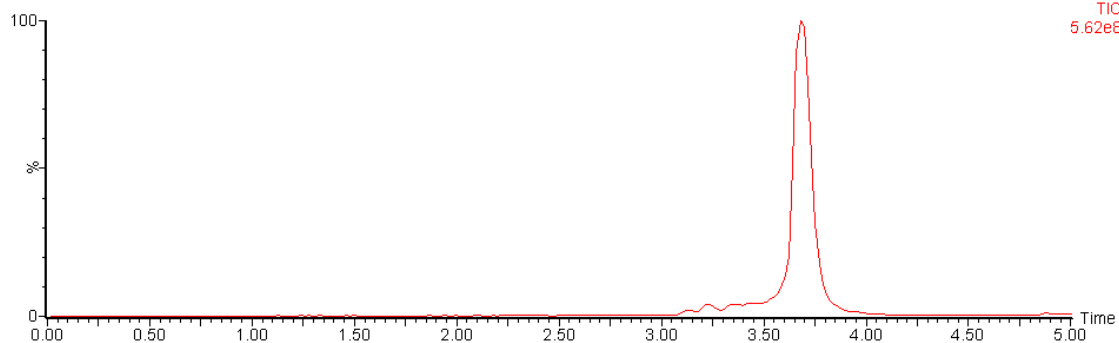
180503_8_Phe_Leu_Ile_DLeu_Benzylamine_Propylamine_cyclized_biotage_10

2: Diode Array
Range: 7.206e-1



180503_8_Phe_Leu_Ile_DLeu_Benzylamine_Propylamine_cyclized_biotage_10

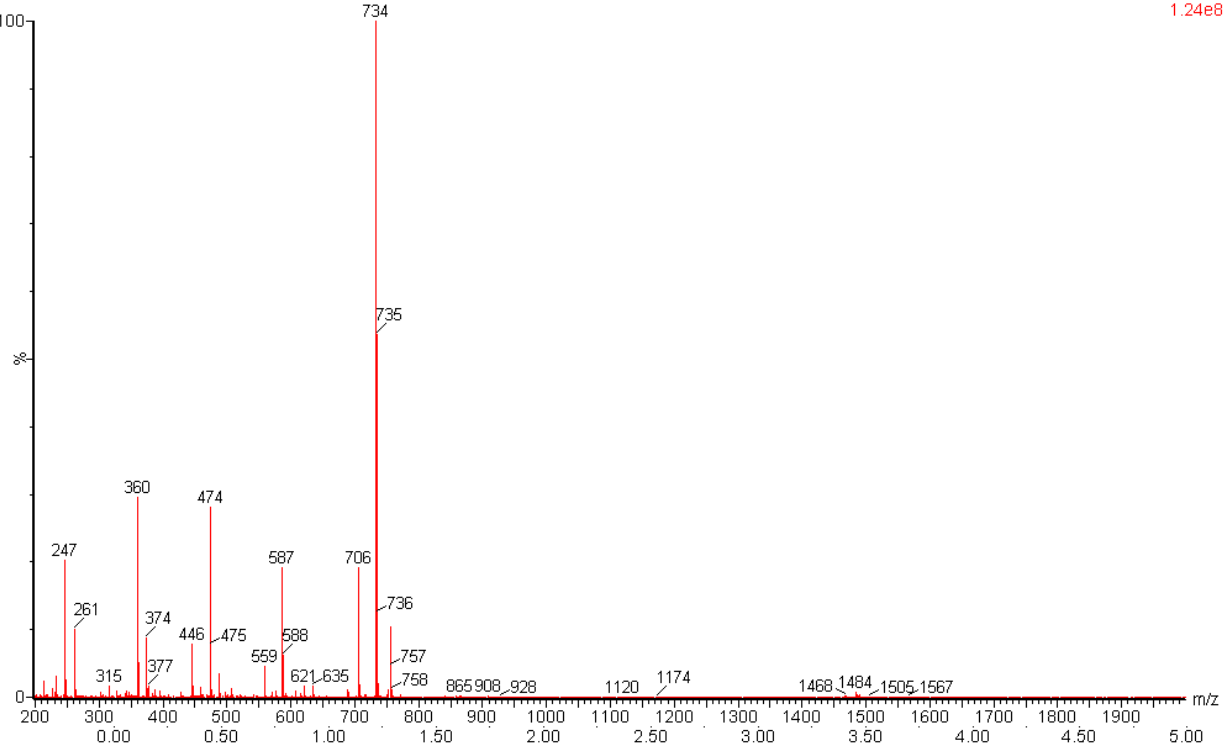
1: Scan ES+
TIC
5.62e8



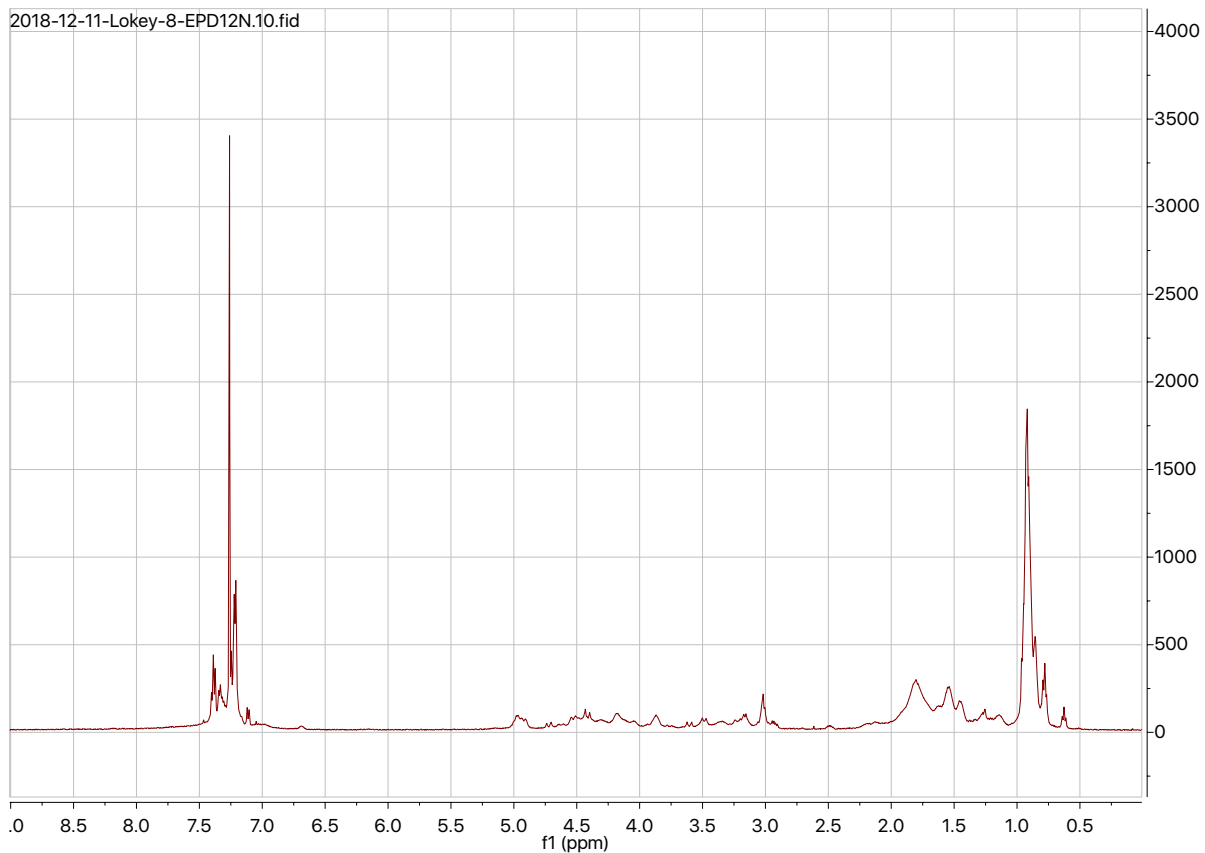
LCMS spectra

180503_8_Phe_Leu_Ile_DLeu_Benzylamine_Propylamine_cyclized_biotage_10 199 (3.678)

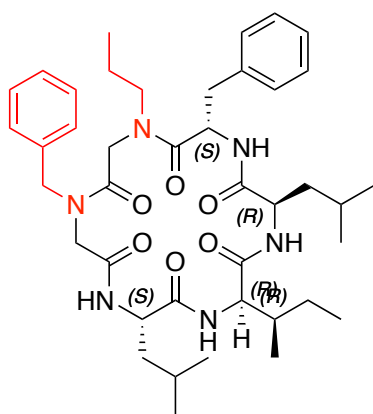
1: Scan ES+
1.24e8



8EpDN (^1H NMR, 500 MHz, CDCl_3)



9EpDN



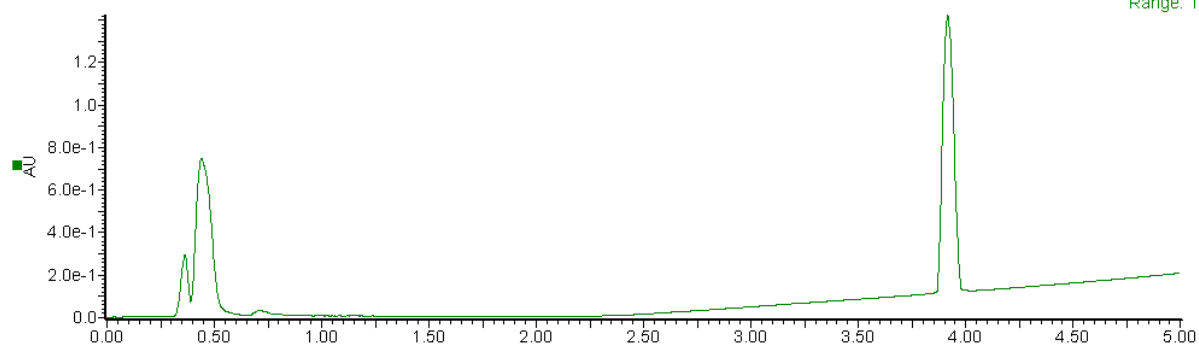
Exact Mass: 732.46
Molecular Weight: 732.97

SMILE structure:

```
O=C([C@@H](CC(C)C)NC([C@]([C@H](C)CC)([H])N1)=O)N[C@H](C(N(CC(N(CC2=CC=CC=C2)C(C(N[C@@H](CC(C)C)C1=O)=O)=O)CCC)=O)CC3=CC=CC=C3
```

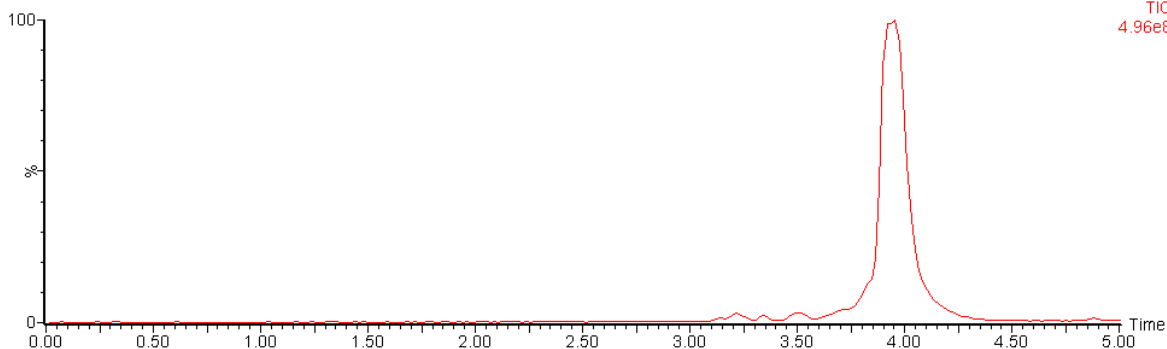
180503_9_Phe_DLeu_Dlle_Leu_Benzylamine_Propylamine_cyclized_biotage_15

2: Diode Array
Range: 1.423



180503_9_Phe_DLeu_Dlle_Leu_Benzylamine_Propylamine_cyclized_biotage_15

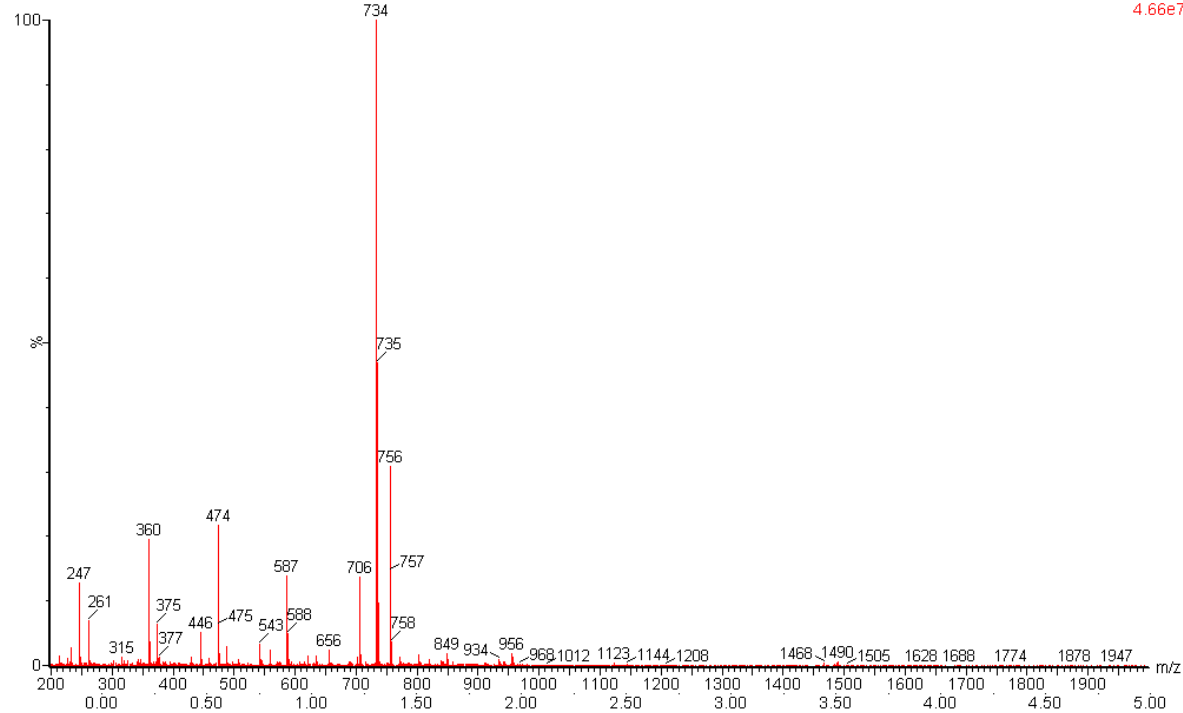
1: Scan ES+
TIC
4.96e8



LCMS spectra

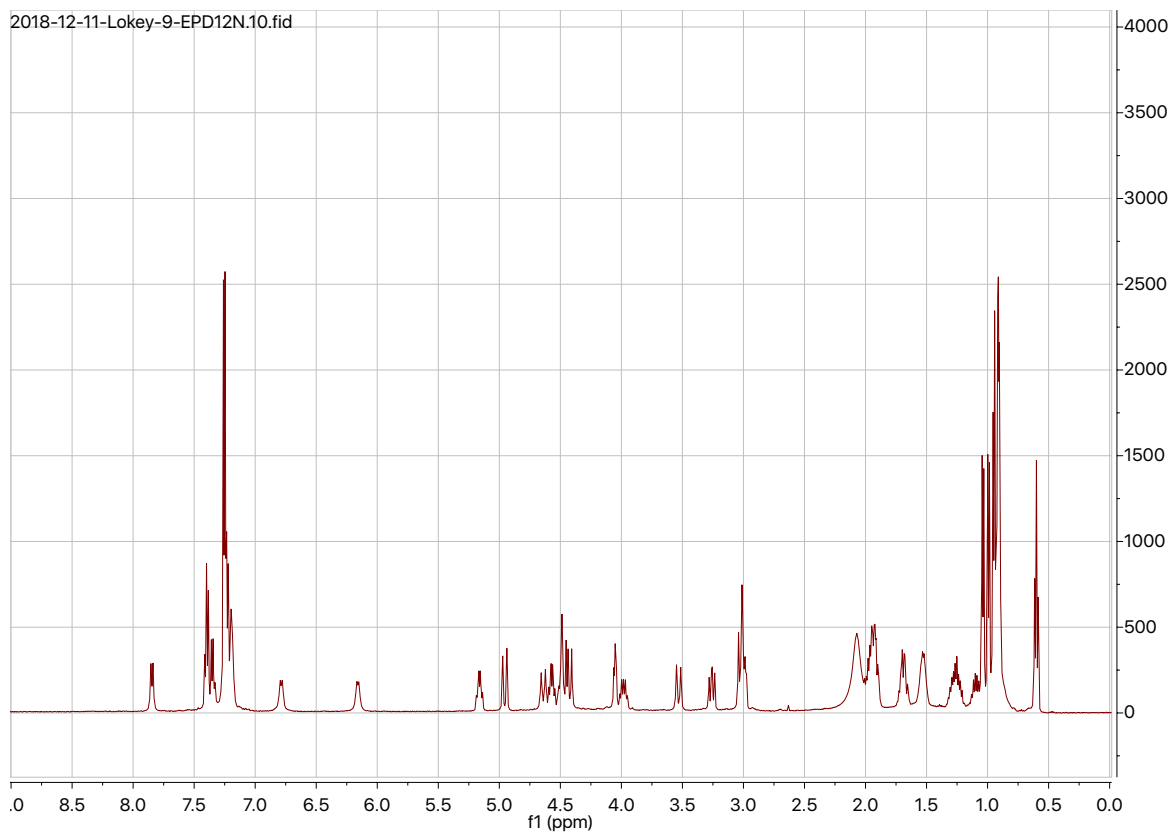
180503_9_Phe_DLeu_Dlle_Leu_Benzylamine_Propylamine_cyclized_biotage_15 210 (3.881)

1: Scan ES+
4.66e7

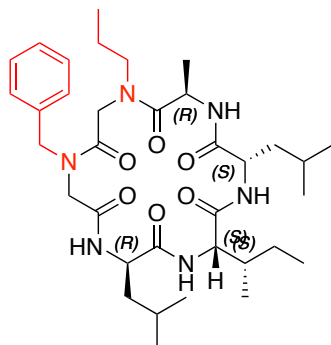


9EpDN (^1H NMR, 500 MHz, CDCl_3)

2018-12-11-Lokey-9-EPD12N.10.fid



1EpDN 6Ala

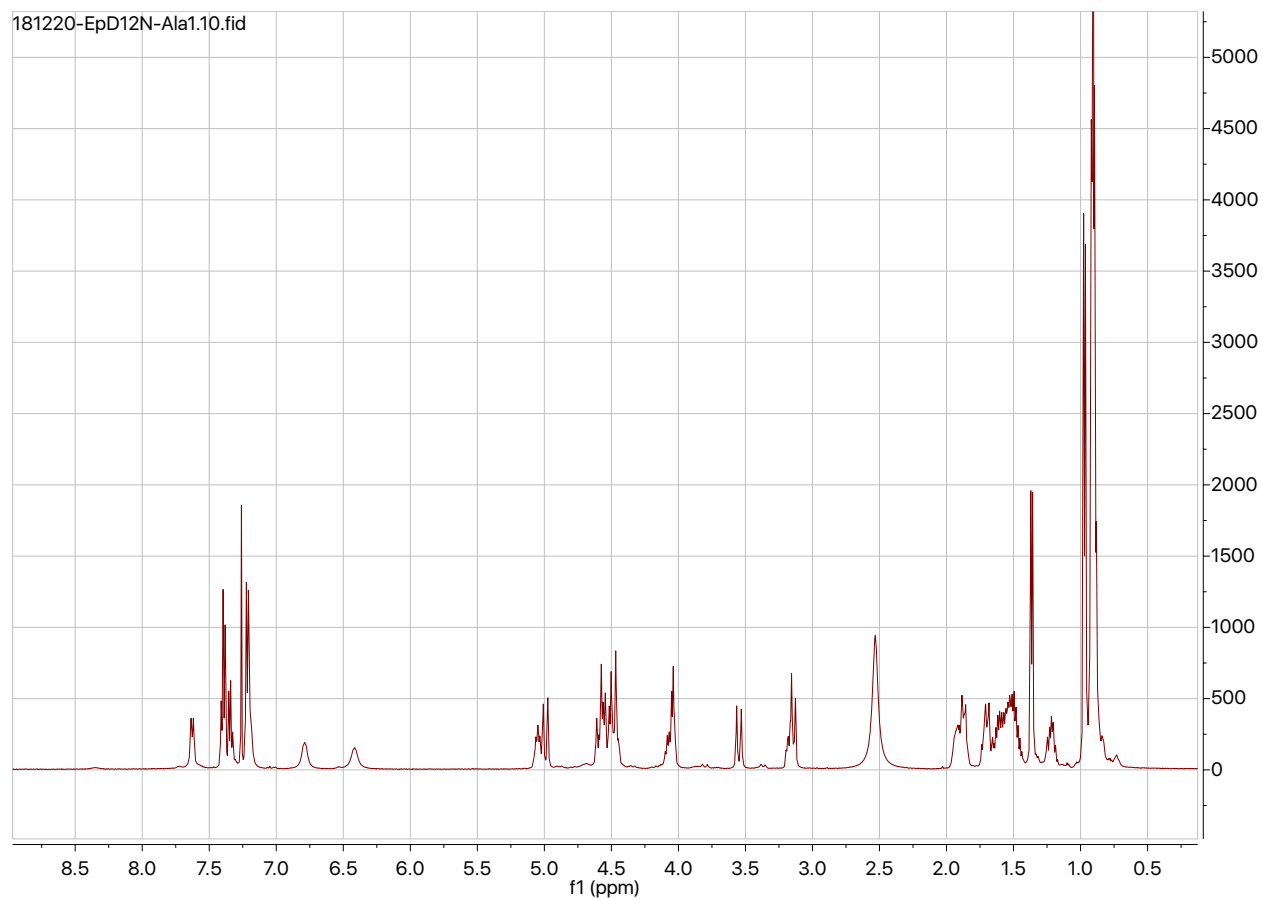


Exact Mass: 656.43
Molecular Weight: 656.87

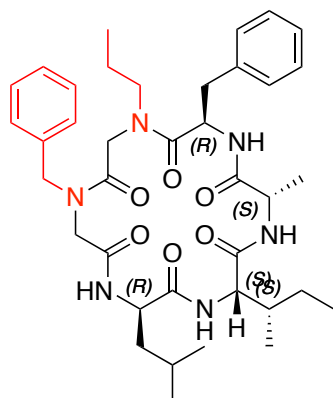
SMILE structure:

```
O=C([C@H](CC(C)C)NC([C@@]([C@@H](C)CC)
([H])N1=O)N[C@@H](C(N(CC(N(CC2=CC=CC=
C2)CC(N[C@H](CC(C)C)C1=O)=O)=O)CCC)=O)C
```

1EpDN 6Ala (¹H NMR, 500 MHz, CDCl₃)



1EpDN 5Ala

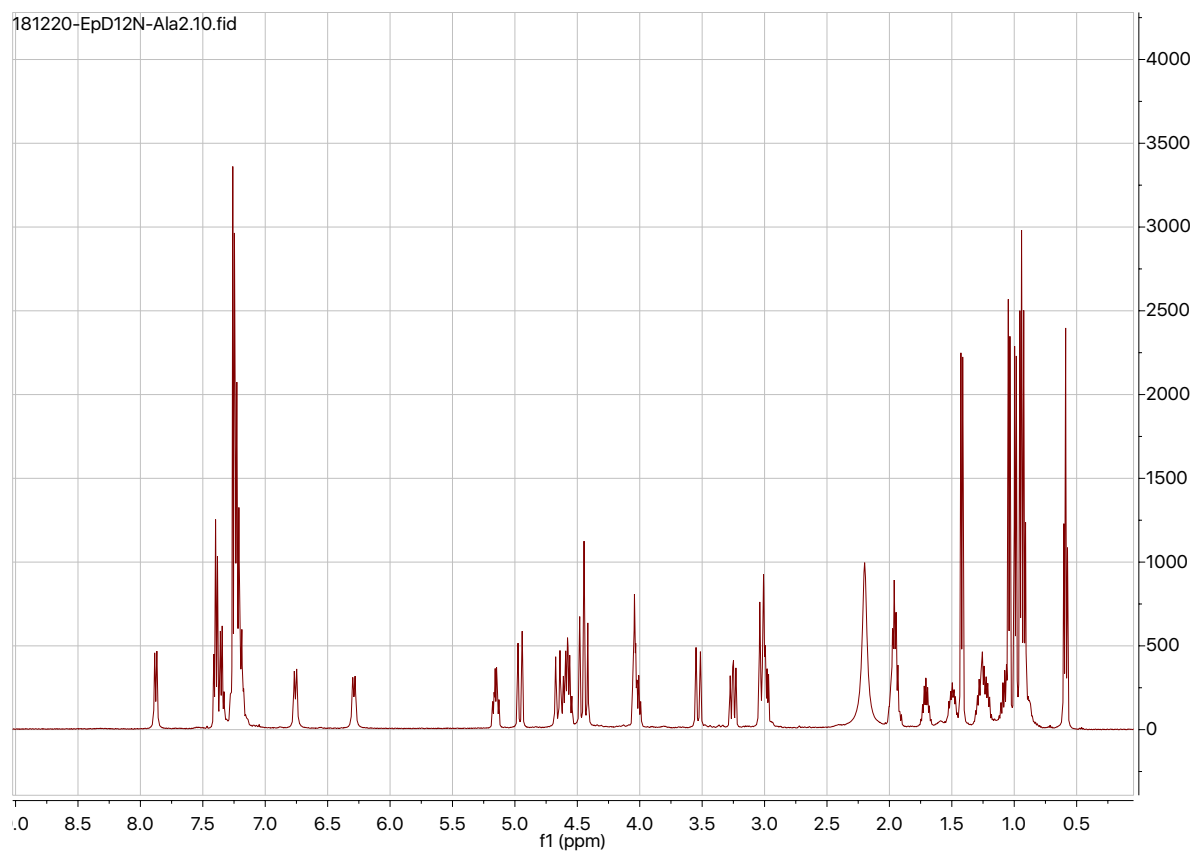


Exact Mass: 690.41
Molecular Weight: 690.89

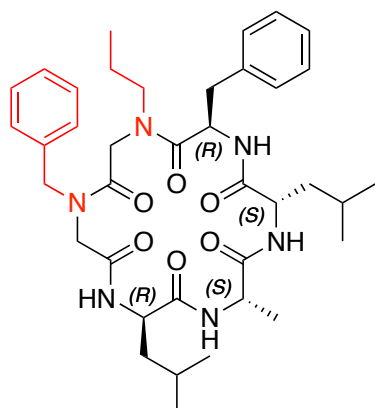
SMILE structure:

```
C[C@@H](C(N[C@@H](C(N(CC(N(CC  
1=CC=CC=C1)CC(N[C@H](CC(C)C)C2=  
O)=O)=O)CCC)=O)CC3=CC=CC=C3)=O)  
NC([C@@]([C@@H](C)CC)([H])N2)=O
```

1EpDN 5Ala (¹H NMR, 500 MHz, CDCl₃)



1EpDN 4Ala

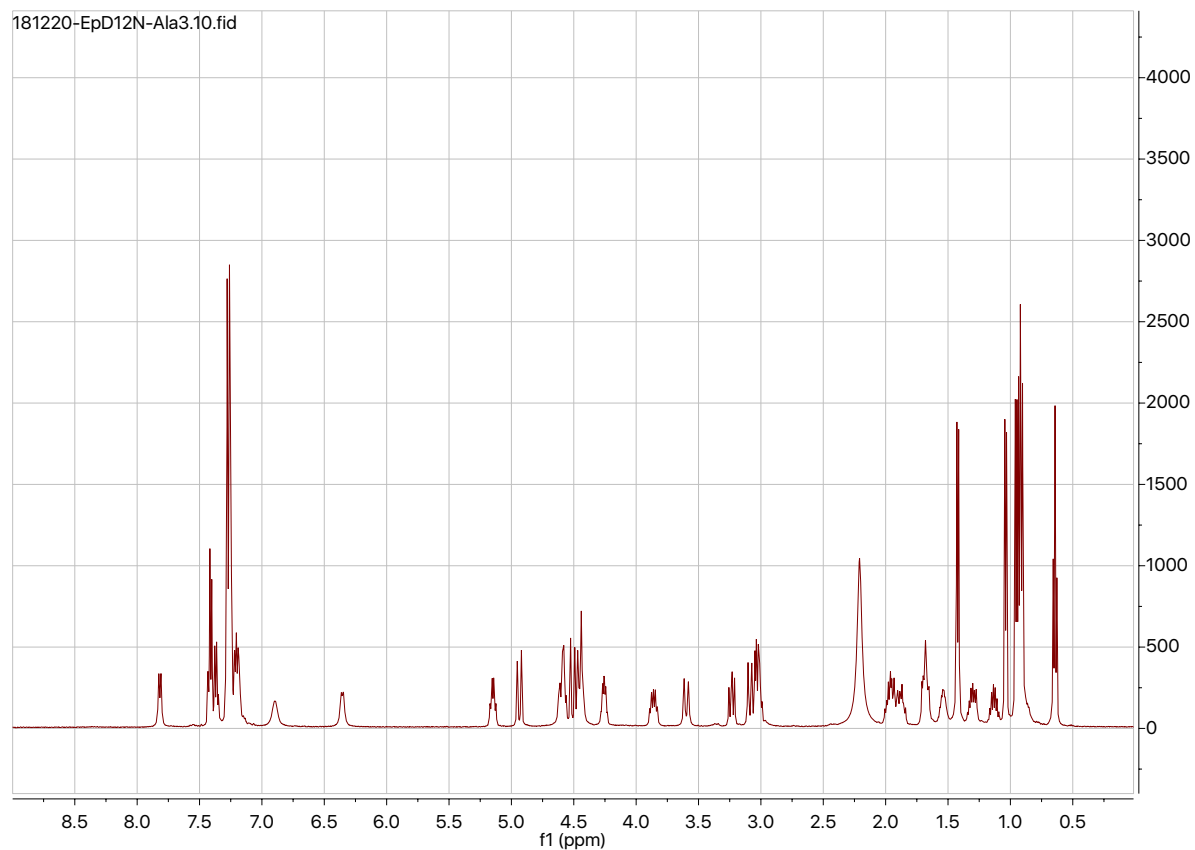


Exact Mass: 690.41
Molecular Weight: 690.89

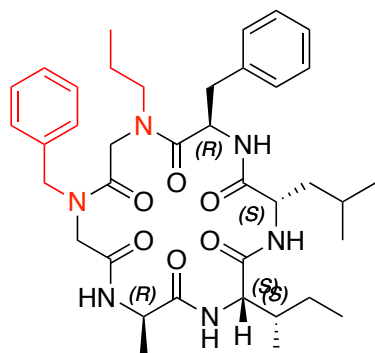
SMILE structure:

```
O=C([C@H](CC(C)C)NC([C@H](C)N1=O)N[C@@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@H](CC(C)C)C1=O)=O)=O)CCC)=O)CC3=CC=CC=C3
```

1EpDN 4Ala (¹H NMR, 500 MHz, CDCl₃)



1EpDN 3Ala

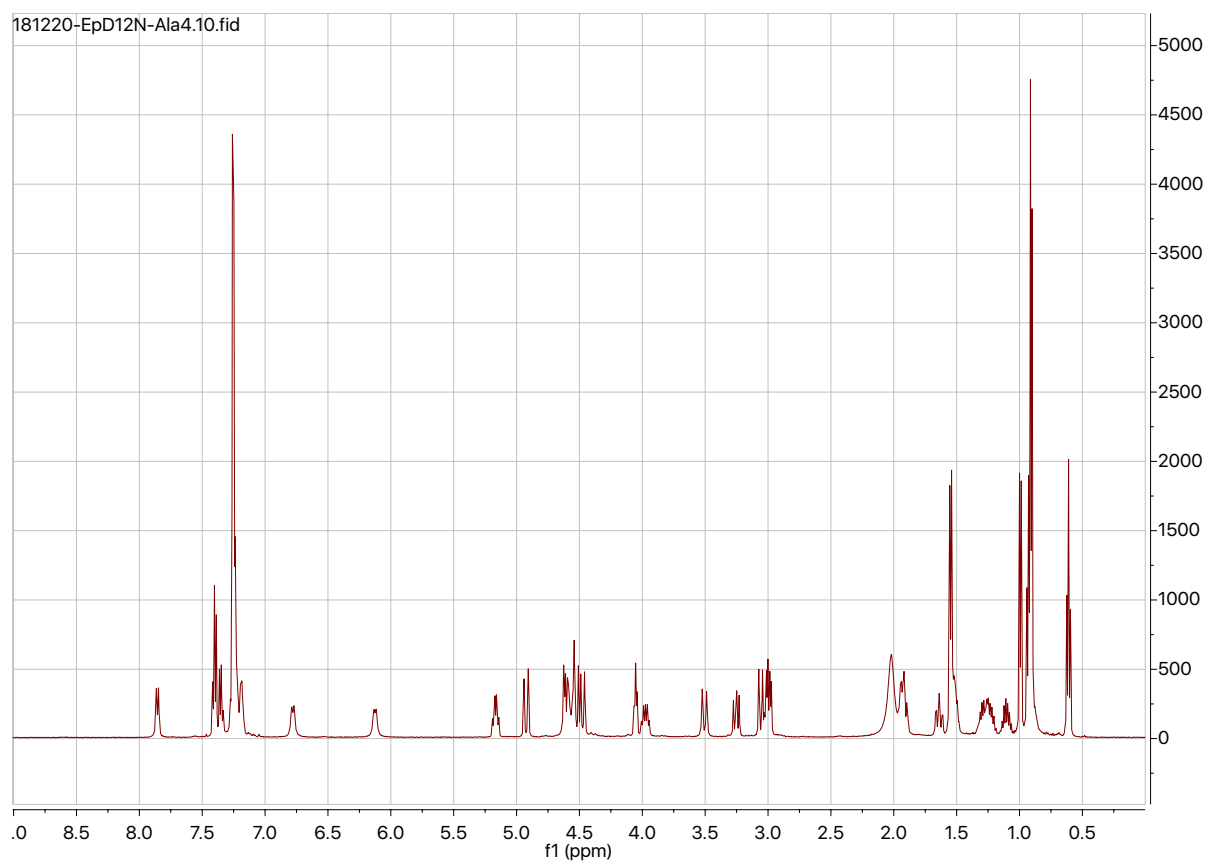


Exact Mass: 690.41
Molecular Weight: 690.89

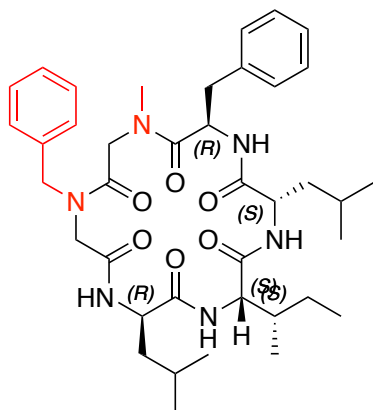
SMILE structure:

```
O=C([C@H](CC(C)C)NC([C@@]([C@@H](C)CC)([H])N1)=O)N[C@@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@H](C)C1=O)=O)=O)CCC)=O)CC3=CC=CC=C3
```

1EpDN 3Ala (¹H NMR, 500 MHz, CDCl₃)



1EpDN 1Sar

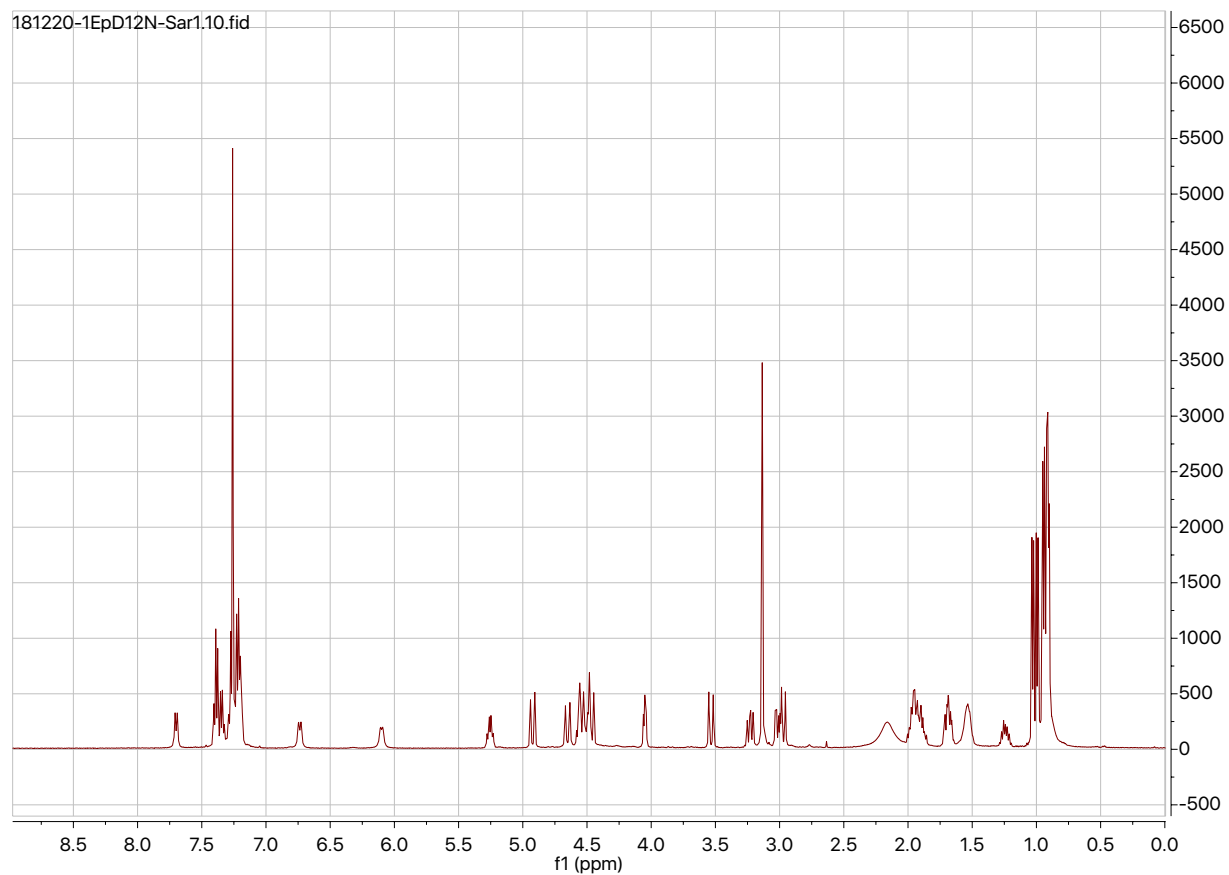


Exact Mass: 704.43
Molecular Weight: 704.91

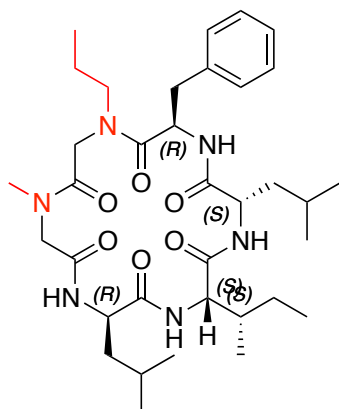
SMILE Structure:

```
O=C([C@H](CC(C)C)NC([C@@]([C@@H](C)CC)([H])N1)=O)N[C@@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@H](CC(C)C)C1=O)=O)=O)C=O)CC3=CC=CC=C3
```

1EpDN 1Sar (¹H NMR, 500 MHz, CDCl₃)



1EpDN 2Sar

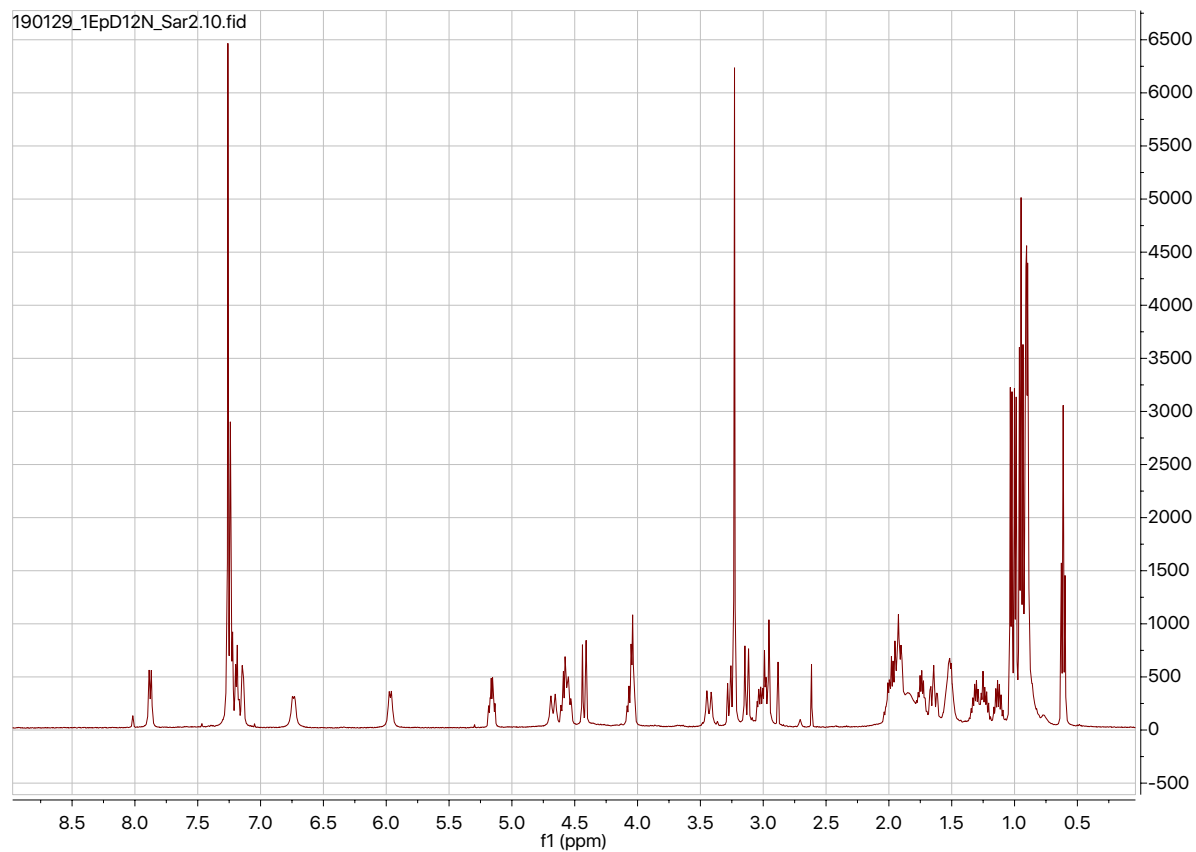


Exact Mass: 656.43
Molecular Weight: 656.87

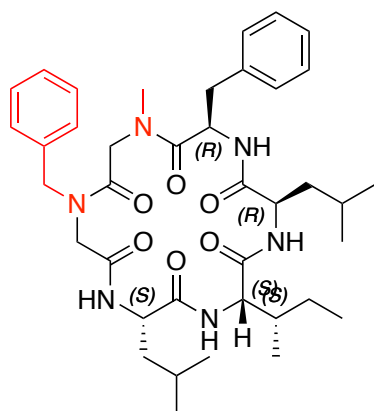
SMILE structure:

```
O=C([C@H](CC(C)C)NC([C@@]([C@@H](C)C)C)C([H])N1=O)N[C@@H](C(N(CC(N(C)CC(N[C@H](CC(C)C)C1=O)=O)=O)CCC=O)CC=CC=C)C=C
```

1EpDN 2Sar (¹H NMR, 500 MHz, CDCl₃)



4EpDN 1Sar

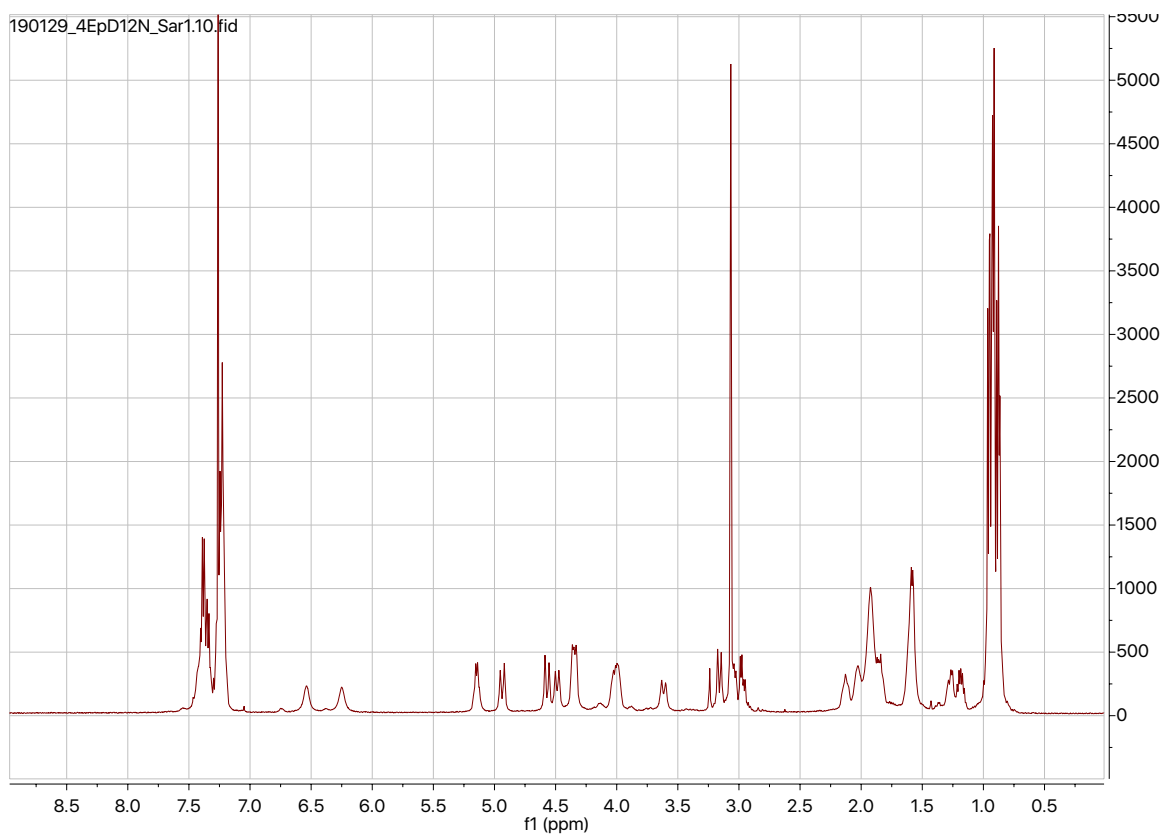


Exact Mass: 704.43
Molecular Weight: 704.91

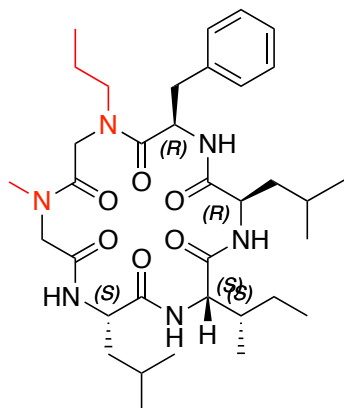
SMILE structure:

```
O=C([C@@H](CC(C)C)NC([C@@]([C@@H](C)C)C)([H])N1)=O)N[C@@H](C(N(CC(N(CC2=CC=CC=C2)CC(N[C@@H](CC(C)C)C1=O)=O)=O)C)=O)C3=CC=CC=C3
```

4EpDN 1Sar (¹H NMR, 500 MHz, CDCl₃)



4EpDN 2Sar

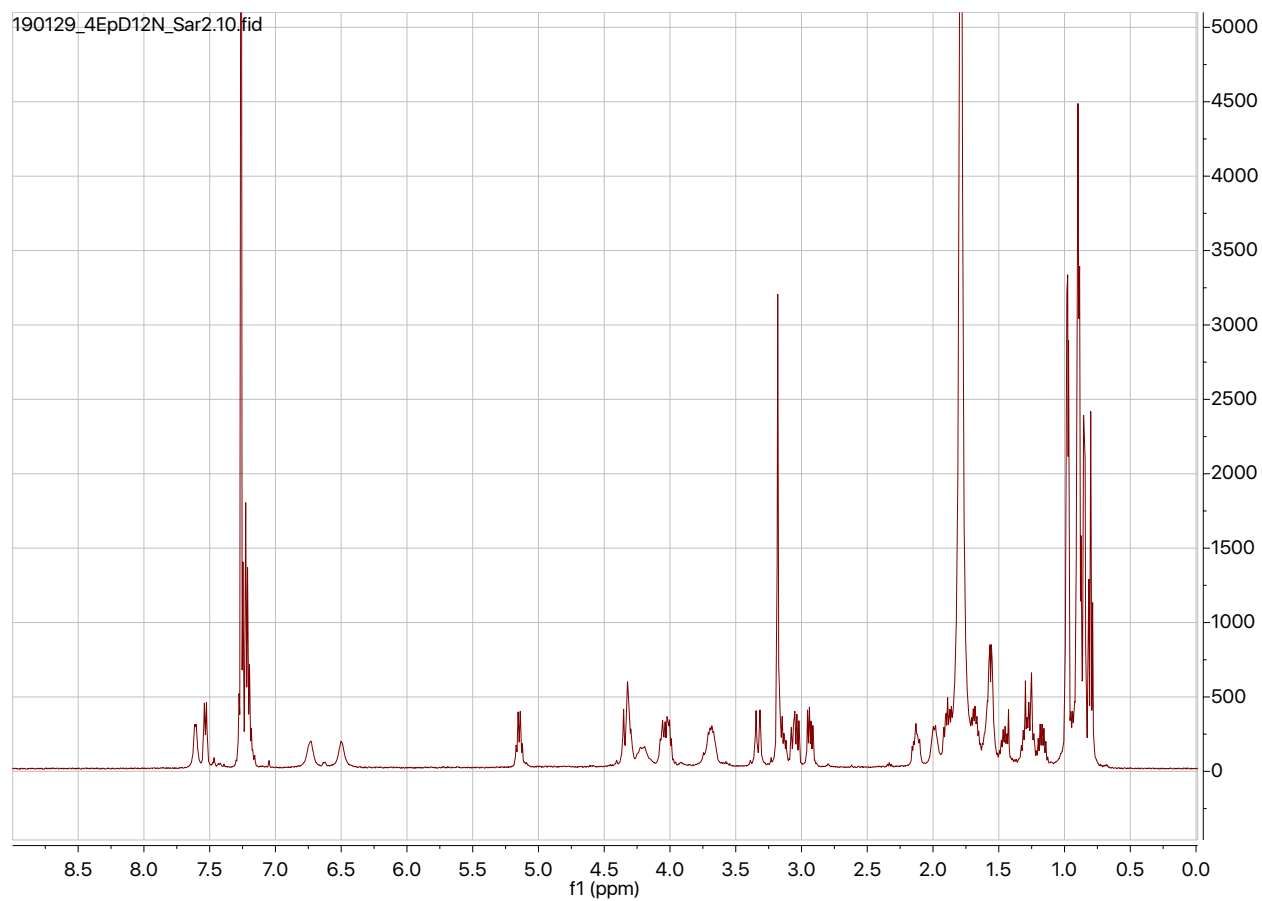


Exact Mass: 656.43
Molecular Weight: 656.87

SMILE structure:

```
O=C([C@@H](CC(C)C)NC([C@@]([C@@H](C)C)C)([H])N1=O)N[C@@H](C(N(CC(N(C)CC(N[C@@H](CC(C)C)C1=O)=O)=O)CCC)=O)CC2=CC=CC=C2
```

4EpDN 2Sar (¹H NMR, 500 MHz, CDCl₃)



References

1. Matsui H, Eguchi M, Ohsumi K, Nakamura A, Isshiki Y, Sekiya K, Kikuchi Y, Nagamitsu T, Masuma R, Sunazuka T, Omura S. 2005. Azithromycin inhibits the formation of flagellar filaments without suppressing flagellin synthesis in *Salmonella enterica* serovar typhimurium. *Antimicrob Agents Chemother* 49:3396-403.
2. Aiello D, Williams JD, Majgier-Baranowska H, Patel I, Peet NP, Huang J, Lory S, Bowlin TL, Moir DT. 2010. Discovery and characterization of inhibitors of *Pseudomonas aeruginosa* type III secretion. *Antimicrob Agents Chemother* 54:1988-99.
3. Bowlin NO, Williams JD, Knoten CA, Torhan MC, Tashjian TF, Li B, Aiello D, Mecsas J, Hauser AR, Peet NP, Bowlin TL, Moir DT. 2014. Mutations in the *Pseudomonas aeruginosa* needle protein gene *pscF* confer resistance to phenoxycetamide inhibitors of the type III secretion system. *Antimicrob Agents Chemother* 58:2211-20.