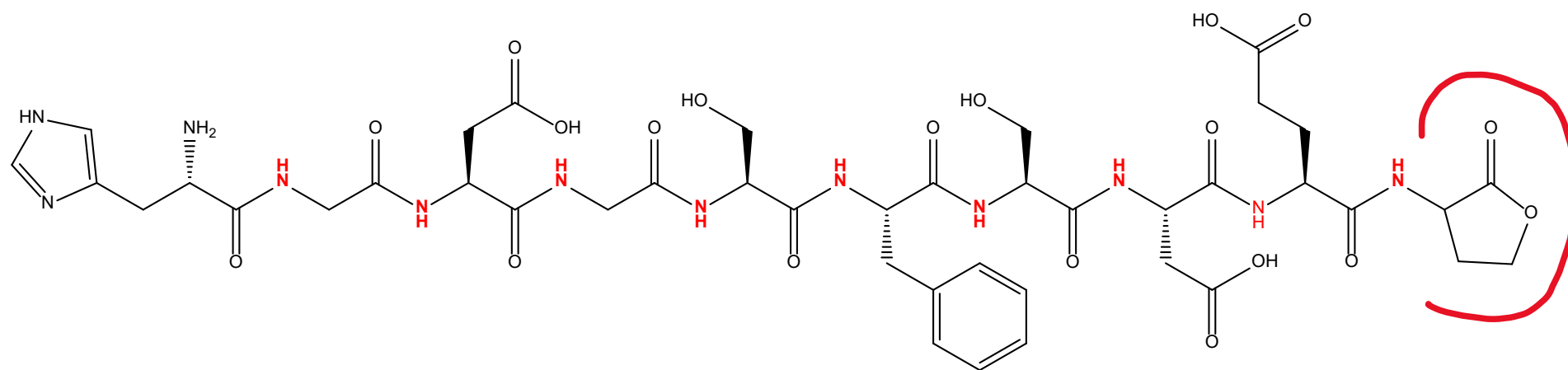


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doi: [10.34172/apb.2023.064](https://doi.org/10.34172/apb.2023.064)

<https://apb.tbzmed.ac.ir>

Main fragments from reaction of cyanogen bromide with methionine residue



Chemical Formula: $C_{42}H_{56}N_{12}O_{19}$

Exact Mass: 1032.38

Molecular Weight: 1032.98

Compound (1)

Asn-Thr-Ile-Leu-Asp-Asn-Leu-Ala-Ala-Arg-Asp-Phe-Ile-Asn-Trp-Leu-Ile-Gln-Thr-Lys-Ile-Thr-Asp

Chemical Formula: $C_{121}H_{194}N_{32}O_{37}$

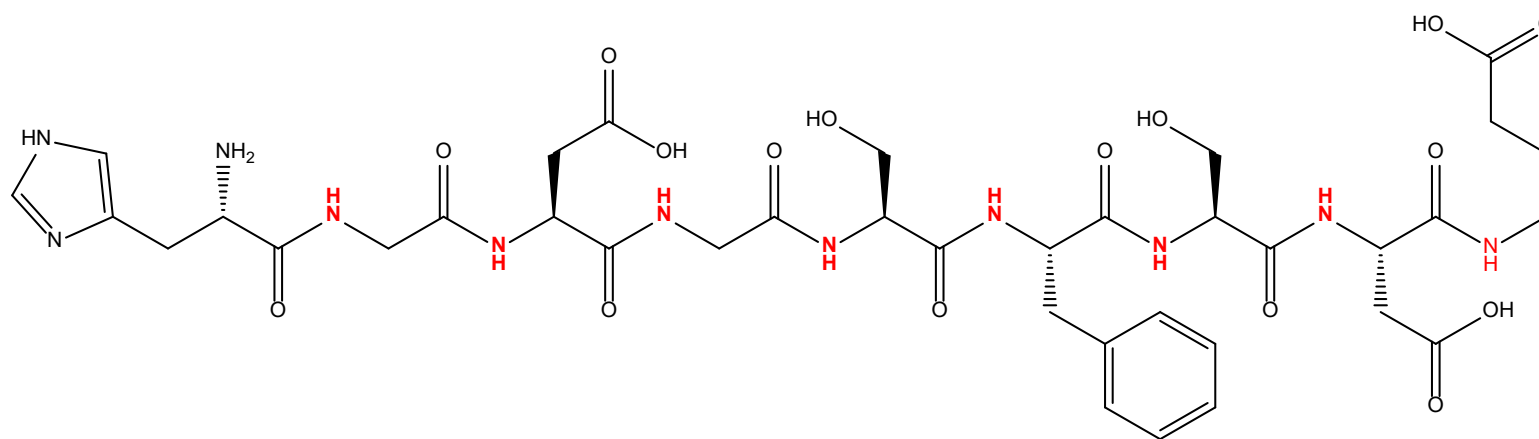
Exact Mass: 2687.43

Molecular Weight: 2689.07

Compound (2)

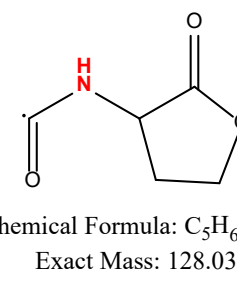
- Mass Fragmentation of Compound (1)

1- $m/z = 469$ AND 563



Chemical Formula: $C_{37}H_{50}N_{11}O_{16}$
 Exact Mass: 904.34

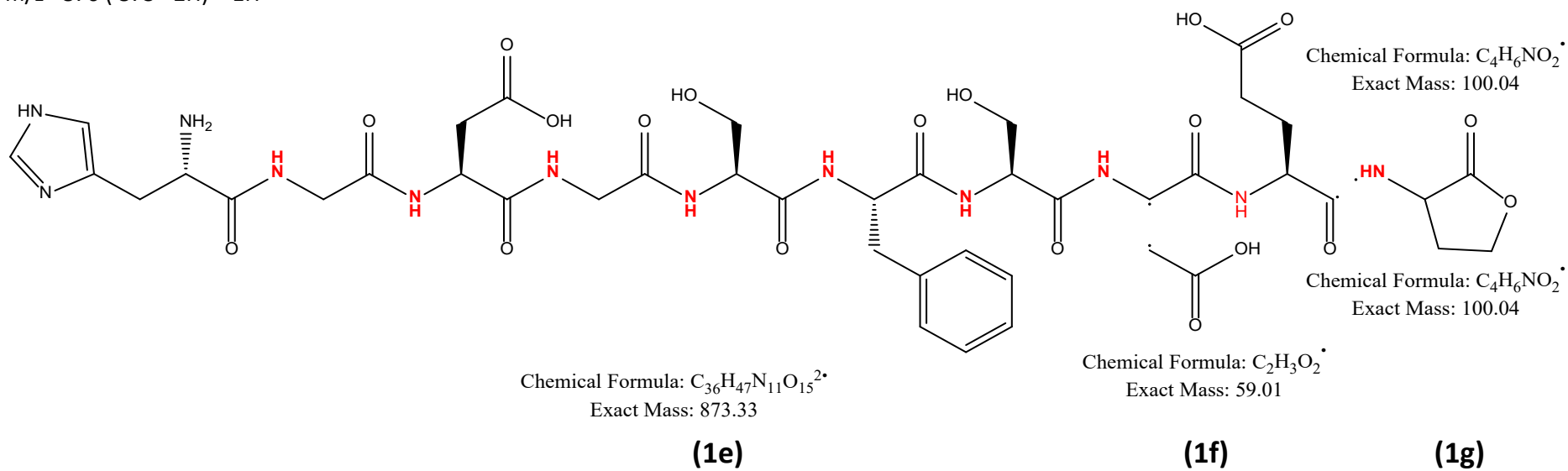
(1c)



Chemical Formula: $C_5H_6NO_3$
 Exact Mass: 128.03

(1d)

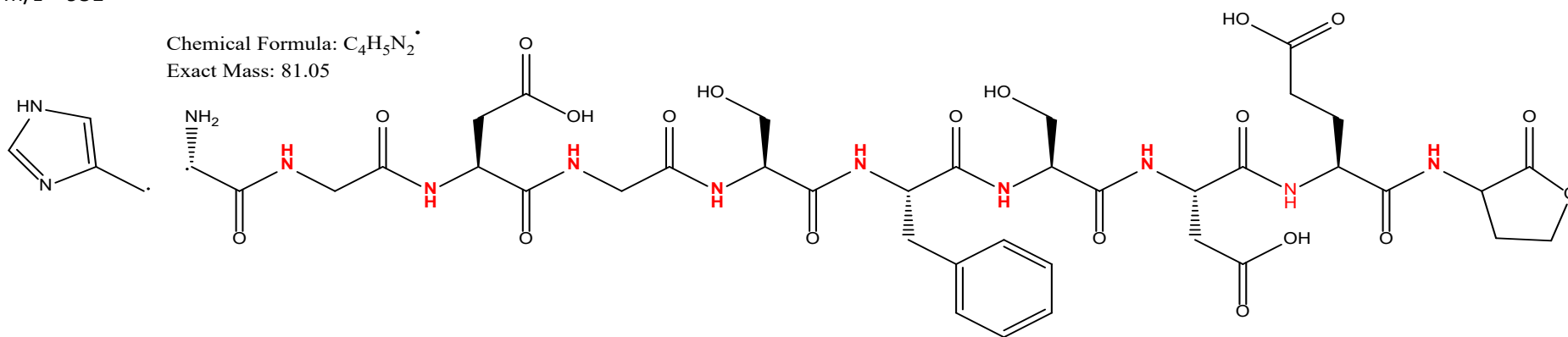
3- $m/z = 876 (873 + 2H) + 1H$



4- $m/z = 951$

Chemical Formula: $\text{C}_4\text{H}_5\text{N}_2^{\bullet}$

Exact Mass: 81.05



Chemical Formula: C₃₈H₅₁N₁₀O₁₉

Exact Mass: 951.33

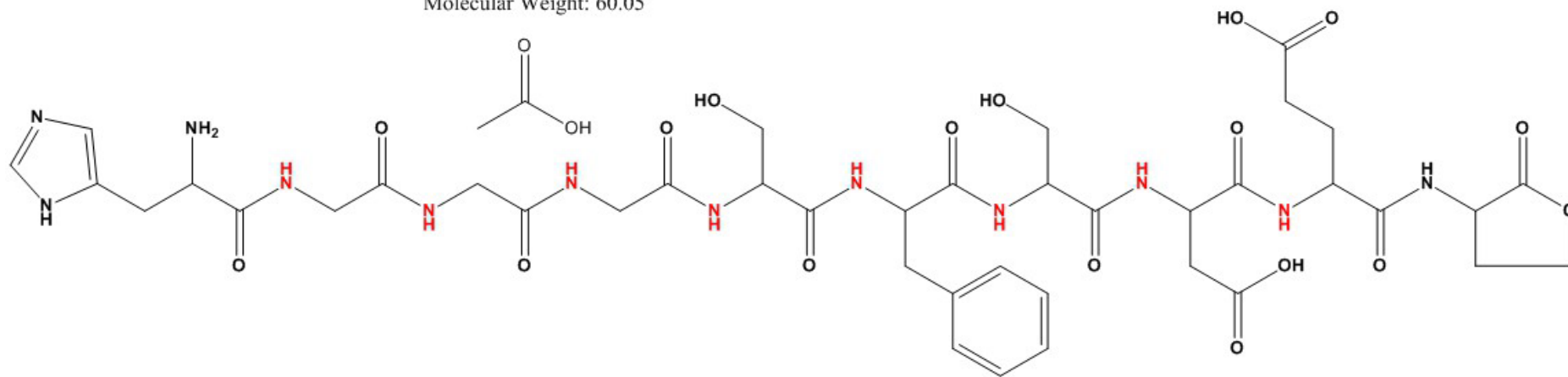
(1h)

5- $m/z = 974$

Chemical Formula: $C_2H_4O_2$

Exact Mass: 60.02

Molecular Weight: 60.05



Chemical Formula: C₄₀H₅₄N₁₂O₁₇

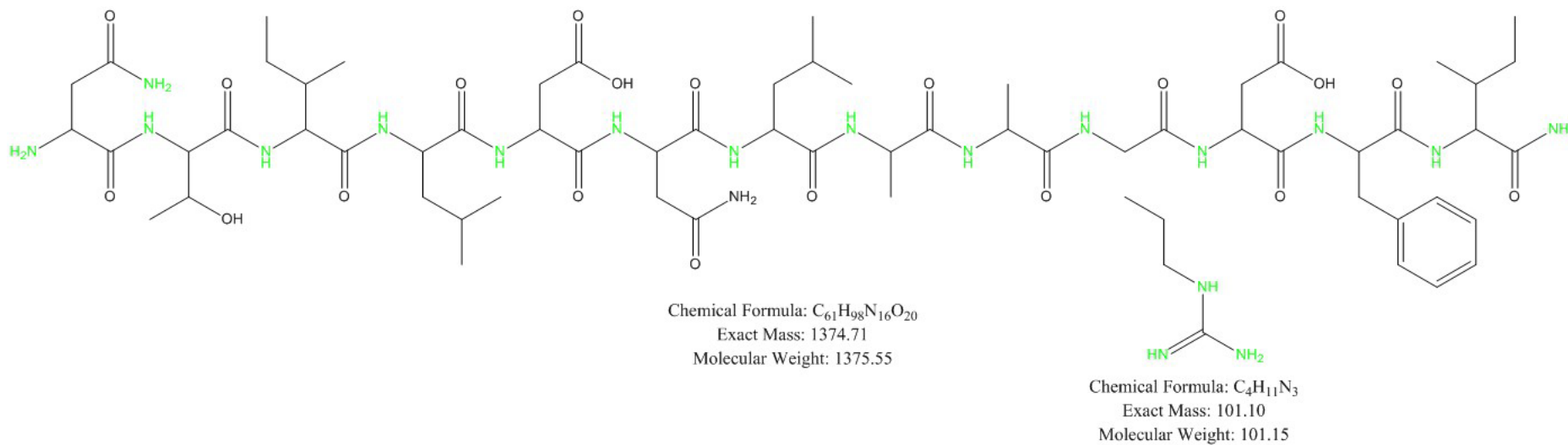
Exact Mass: 974.37

Molecular Weight: 974.94

(1i)

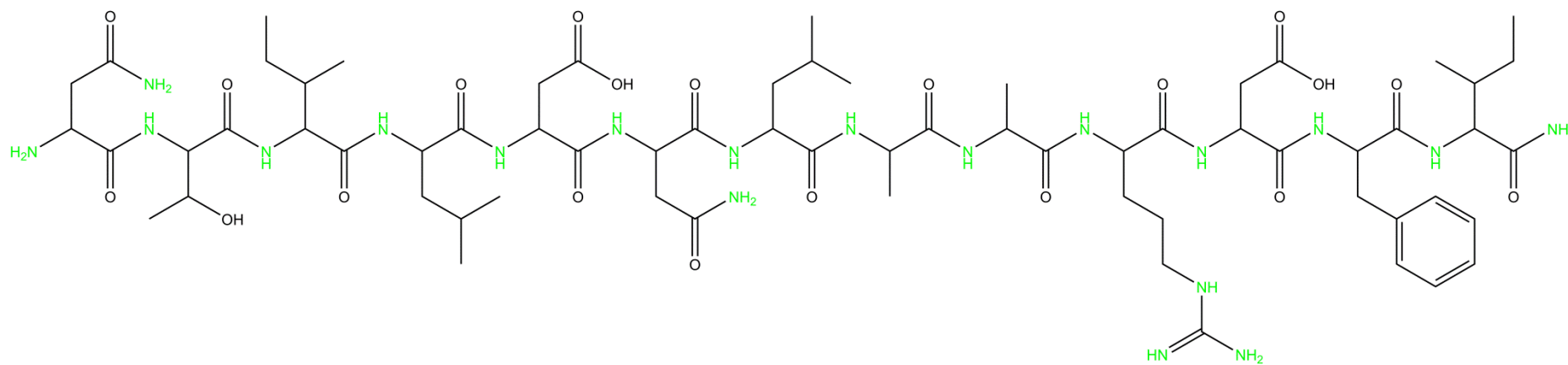
- Mass Fragmentation of Compound (2)

1- $m/z = 1376$ ($1374 + 2H$)



(2a)

2- m/z= 1474



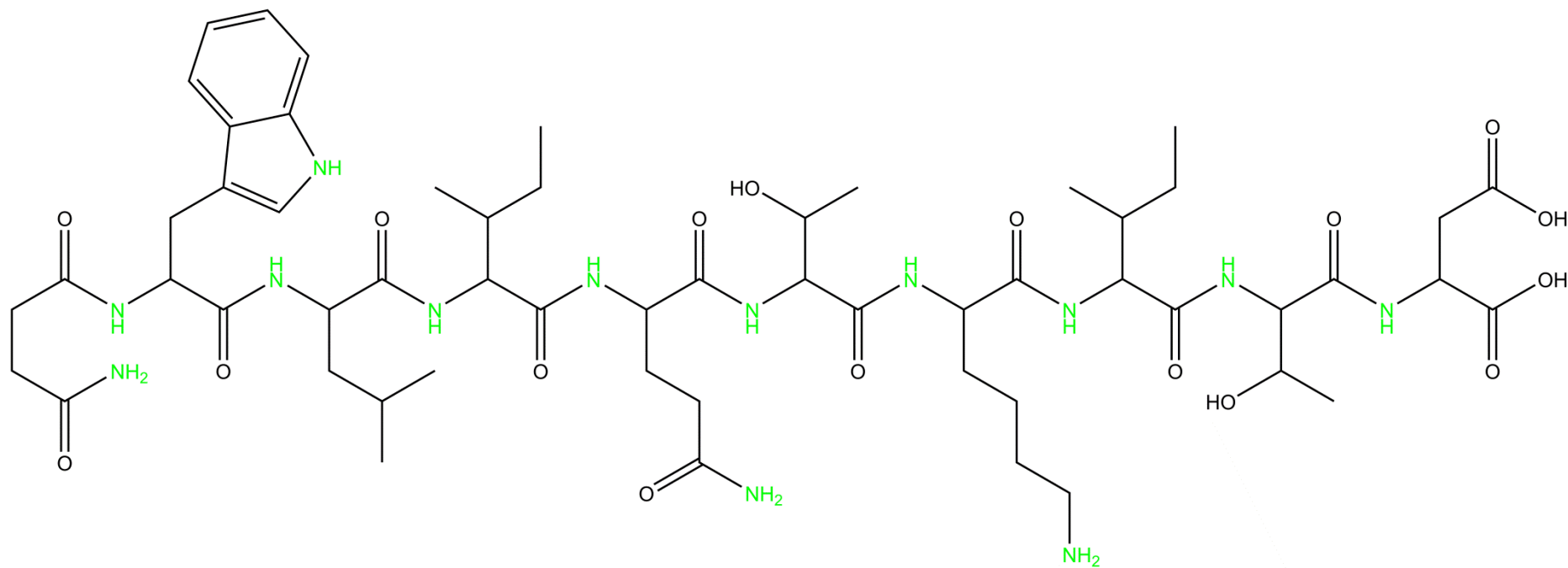
Chemical Formula: C₆₅H₁₀₇N₁₉O₂₀

Exact Mass: 1473.79

Molecular Weight: 1474.68

(2b)

3- m/z= 1219 (1216+3H)



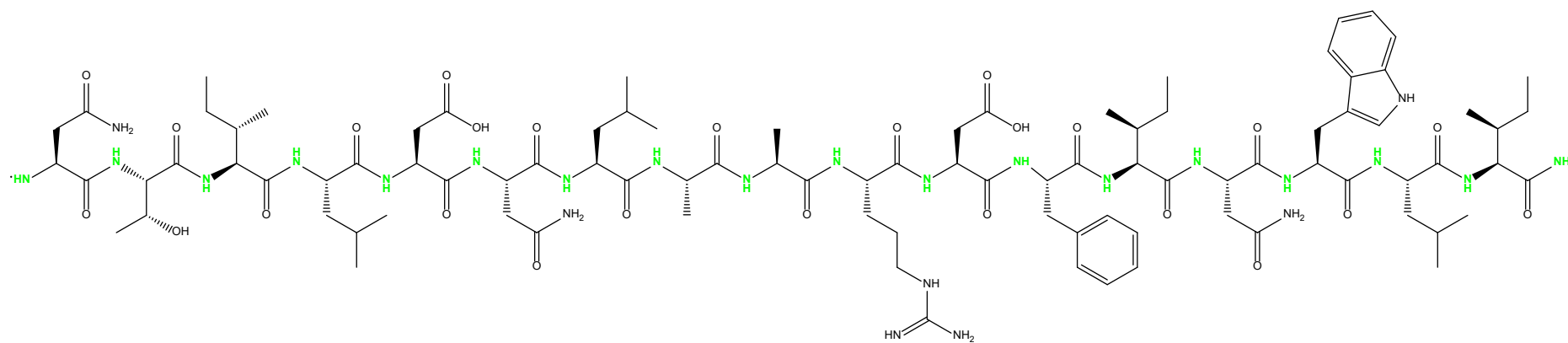
Chemical Formula: C₅₆H₈₉N₁₃O₁₇

Exact Mass: 1215.65

Molecular Weight: 1216.40

(2c)

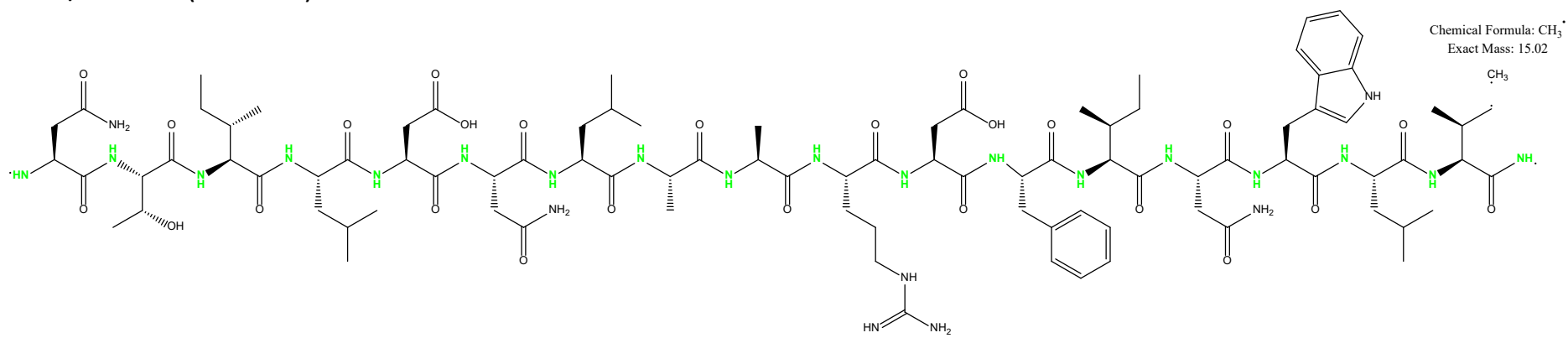
4- m/z= 1998



Chemical Formula: C₉₂H₁₄₃N₂₅O₂₅²⁺
Exact Mass: 1998.07

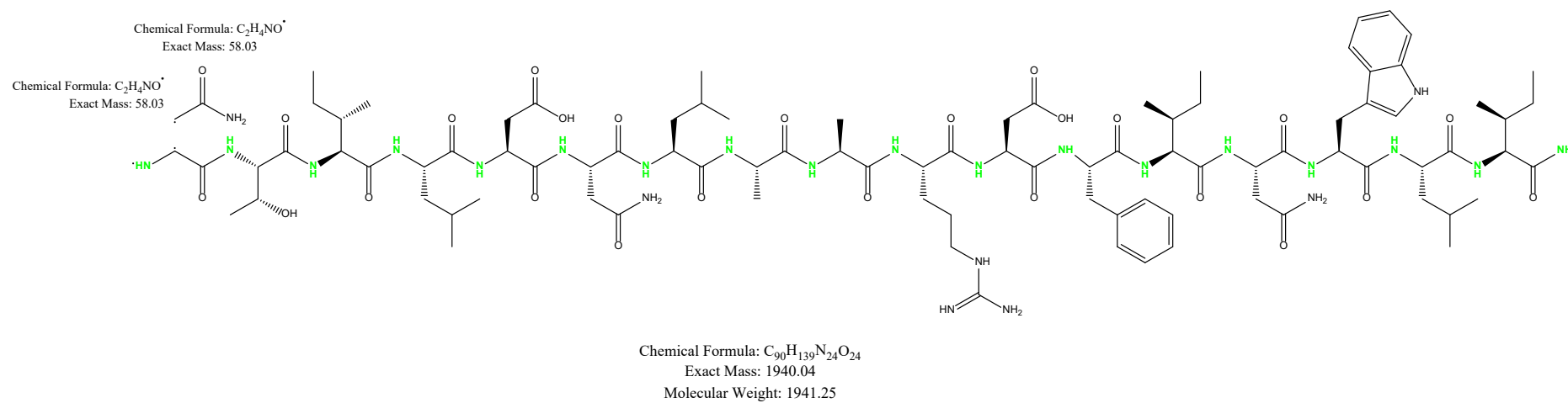
(2d)

5- m/z= 1981 (1993-2H)



(2e)

6- $m/z = 1938$ (1940-2H)



(2f)