

## UHPLC CERTIFICATE OF ANALYSIS

### SAMPLE INFORMATION

Sample received:

|                              |                                                                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>          | Retatrutide 5mg Batch No. 12731                                                                                                                                                                                                    |
| <b>Sequence</b>              | Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile- $\{\alpha$ -Me-Leu}-Leu-Asp-Lys-{diacid-C20- $\gamma$ -Glu-(AEEA)-Lys}-Ala-Gln-{Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-SerGly-Ala-Pro-Pro-Pro-Ser-NH <sub>2</sub> |
| <b>Dissolution Condition</b> | 100% UHPLC water with 0.1% Trifluoroacetic Acid (TFA). Dissolved sample picture included here.<br>                                               |
| <b>Molecular Weight</b>      | ~4,731.3 g·mol <sup>-1</sup>                                                                                                                                                                                                       |

**STORAGE CONDITION:** 0 °C

### SAMPLE NOTES

One 3 ml clear glass vial with violet cap and silver aluminum crimp. Lyophilized powder present.



## PUMP SETTINGS

|                          |                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pump A</b>            | 100% H2O with .1% Trifluoroacetic Acid                                                                                                                                                                                       |
| <b>Pump D</b>            | 100% Acetonitrile.                                                                                                                                                                                                           |
| <b>Column Usage</b>      | Agilent Zorbax 300SB-C18, 2.1 x 100 mm, 1.7 µm, 300 Å                                                                                                                                                                        |
| <b>Gradient</b>          | <ul style="list-style-type: none"><li>- 5% D hold (0–1 min)</li><li>- 5–40% D over 18 min (1.9% D/min)</li><li>- Hold 40% D (3 min)</li><li>- Re-equilibrate to 5% D over 3 min</li><li>- Total run time: ~25 min.</li></ul> |
| <b>Pump Settings</b>     | 0.6 mL/min                                                                                                                                                                                                                   |
| <b>Injection Volume:</b> | 10 µL                                                                                                                                                                                                                        |
| <b>Temperature</b>       | 30 °C                                                                                                                                                                                                                        |

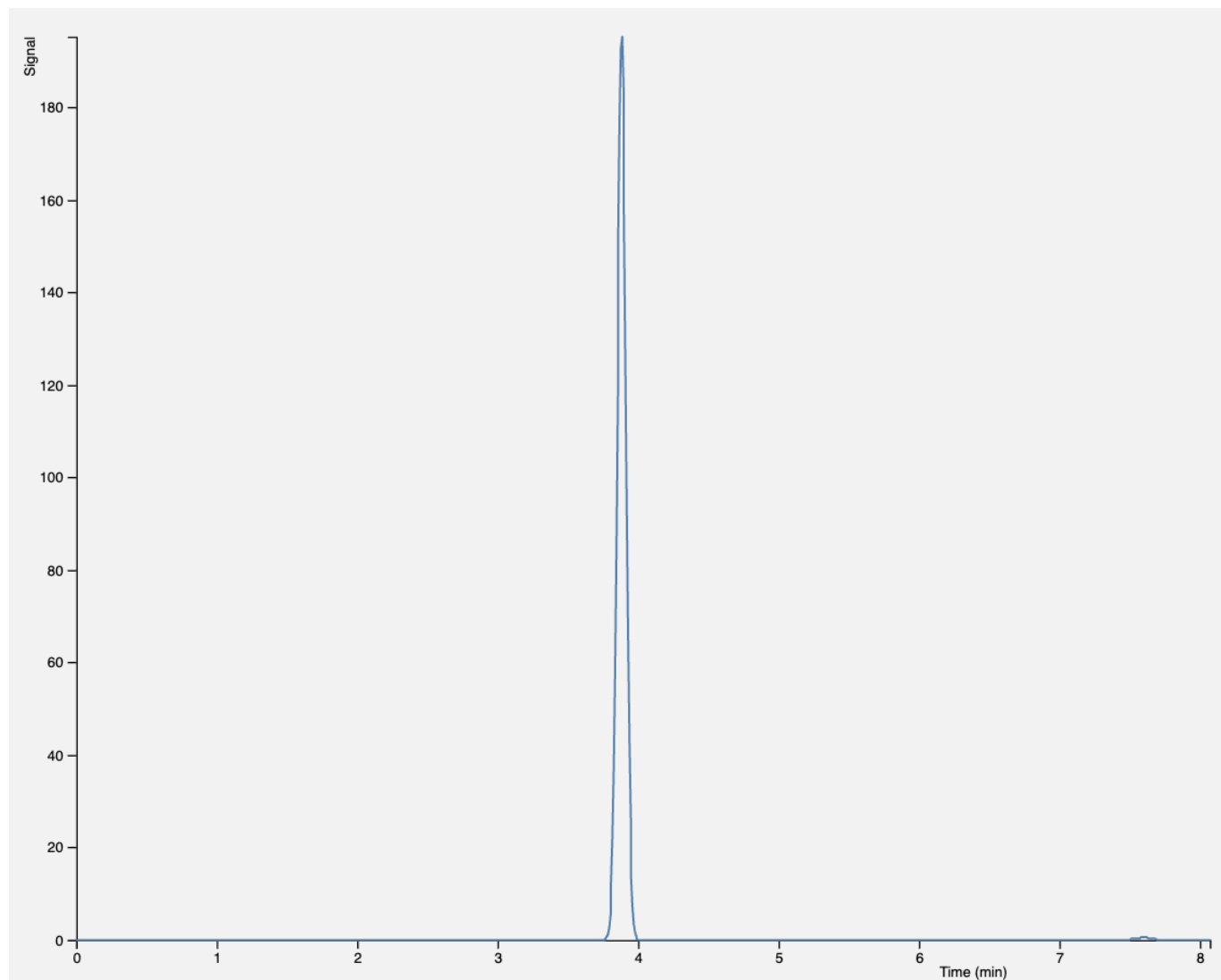
## PURITY RESULT

Purity is **99.52%**

**Product weight extrapolation: 5.8mg**

Total impurity 0.48% (trace inert solvents and minor unidentified peaks; no significant related substances or degradation products detected above 0.1%).

**Chromatogram Export: please note that x axis represents elution window.**



## CONCLUSION

This sample was analyzed on a Thermo Ultimate U3000 HPLC stack using reverse-phase high-performance liquid chromatography and determined to contain **99.52% Retatrutide**, with the remainder being impurities of minor significance.

## CERTIFICATION

**Certified by:** Jonathan Barber

**Title:** Analytical Chemist

**Date:** 10 September 2025



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