

CERTIFICATE OF ANALYSIS

COA #: **SD20260928_001_RT40**

SAMPLE INFORMATION

Client		Accession #	SD20260928_001
Compound	Retatrutide	Date Received	09/28/2026
Molecular Formula	C221H342N46O68	Date Reported	10/01/2026
Appearance	Clear solution	Labeled Quantity	40mg
Sample Form	Solution	Lot / Batch #	1101
Storage	Room Temp	CAS Number	2381089-83-2
Cap Color	No cap / N/A		



All Chemical Analysis Performed by LC-MS/MS

ANALYTICAL RESULTS

Test / Analysis	Method	Specification	Result	Status
Identity (Mass Confirmation)	LC-MS/MS	Matches reference mass	Retatrutide	Pass
Purity	LC-MS/MS	≥ 95.0%	99.12%	Pass
Net Peptide Content	LC-MS/MS	Report value	N/A	N/A
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1183.9m/z – [M+4H] ⁴	Pass
Theoretical Molecular Mass	Reference	—	4731.35	Pass
Related Substances / Impurities	LC-MS/MS	Report value	Not Detected	Pass
Residual Solvents	LC-MS/MS	Report value	Not Detected	Pass

John Humes, MS. **John Humes, MS.**
Analyzed by · Laboratory Analyst · 10/01/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 10/01/2026

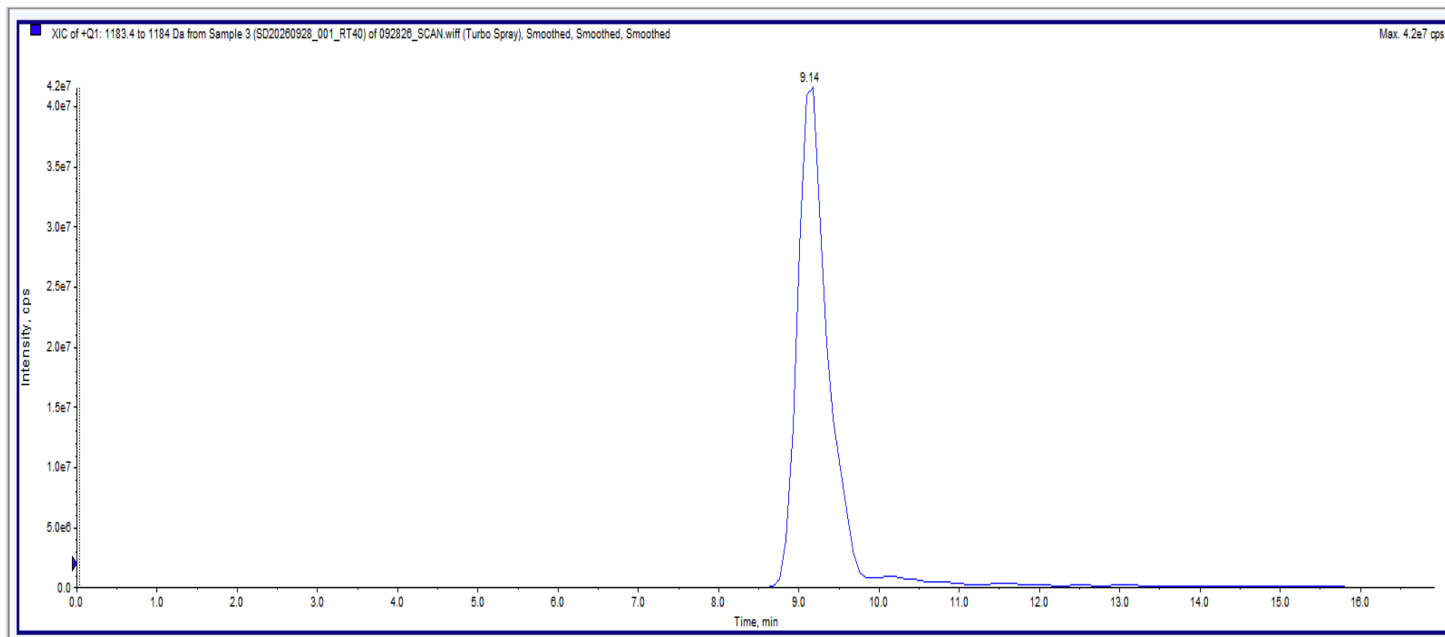
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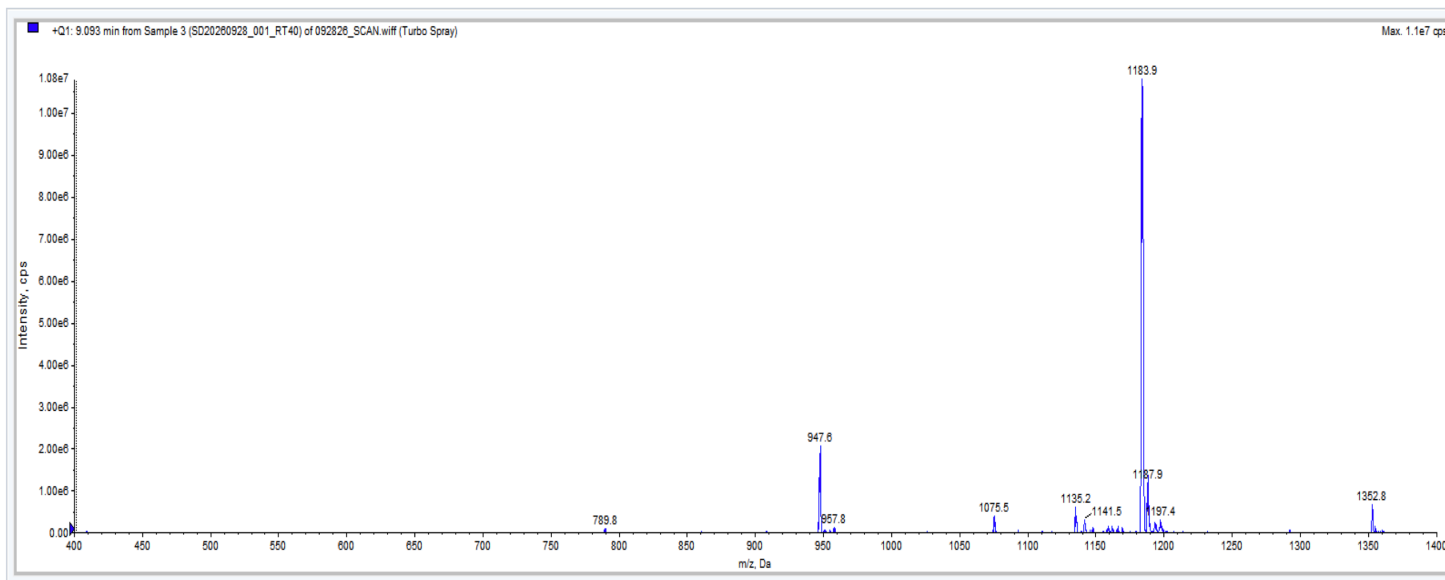
ANALYTICAL DATA

COA #: **SD20260928_001_RT40**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: Retatrutide

Sample ID: SD20260928_001_RT40

Method: LC-MS, positive-mode Q1 full scan, TurboSpray ionization

Retention Time: 9.140min

Q1 scan interpretation

The Q1 full-scan spectrum at 9.1440min shows a multiply charged peptide envelope consistent with Retatrutide, with a regular charge-state ladder centered on 1183.9 m/z as $[M+4H]^4$, and supporting higher and lower charge states. The isotopic spacing and adduct pattern at this retention time match the expected LC-MS identity profile for Retatrutide under the validated method.

Observed ions and charge states

947.6m/z – $[M+5H]$

957.6m/z – $[M+5H]$ (isotopic/adduct variant)

1183.9m/z – $[M+4H]^4$ (dominant precursor)

1188.3m/z – $[M+4H]^4$ (isotopic peak)

1197.4m/z – $[M+4H+Na]^4$ (sodium adduct)

1352.8m/z – $[M+3H]^3$ (lower-charge species)

No distinct 2+ or 1+ envelope is observed at this retention time; the signal is confined to the 5+3+ ladder and associated adducts.

Identity conclusion

Identity by LC-MS Q1 full scan – Retatrutide confirmed.

The observed 5+3+ charge-state ladder centered on $[M+4H]^4$ at 1183.5m/z at 9.14min is consistent with the validated LC-MS identity pattern for Retatrutide, with no non-correlated peptide envelopes present at this retention time.

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