

CERTIFICATE OF ANALYSIS

COA #: **SD20261002_002_RT0**

SAMPLE INFORMATION

Client	Amino Apex	Accession #	SD20261002_002
Compound	Retatrutide	Date Received	10/02/2026
Molecular Formula	C221H342N46O68	Date Reported	10/03/2026
Appearance	White lyophilized powder	Labeled Quantity	10mg
Sample Form	Lyophilized Vial	Lot / Batch #	AA-10RT-03
Storage	Room Temp	CAS Number	2381089-83-2
Cap Color	Black		



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%	99.92%	Pass
Net Peptide Content*	LC-MS	Report value	11.37 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1183.2 [M+4H]	Pass
Theoretical Molecular Mass	Reference	—	4731.35 Da	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 · 10/03/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 10/04/2026

IMPORTANT NOTICE - FOR RESEARCH USE ONLY

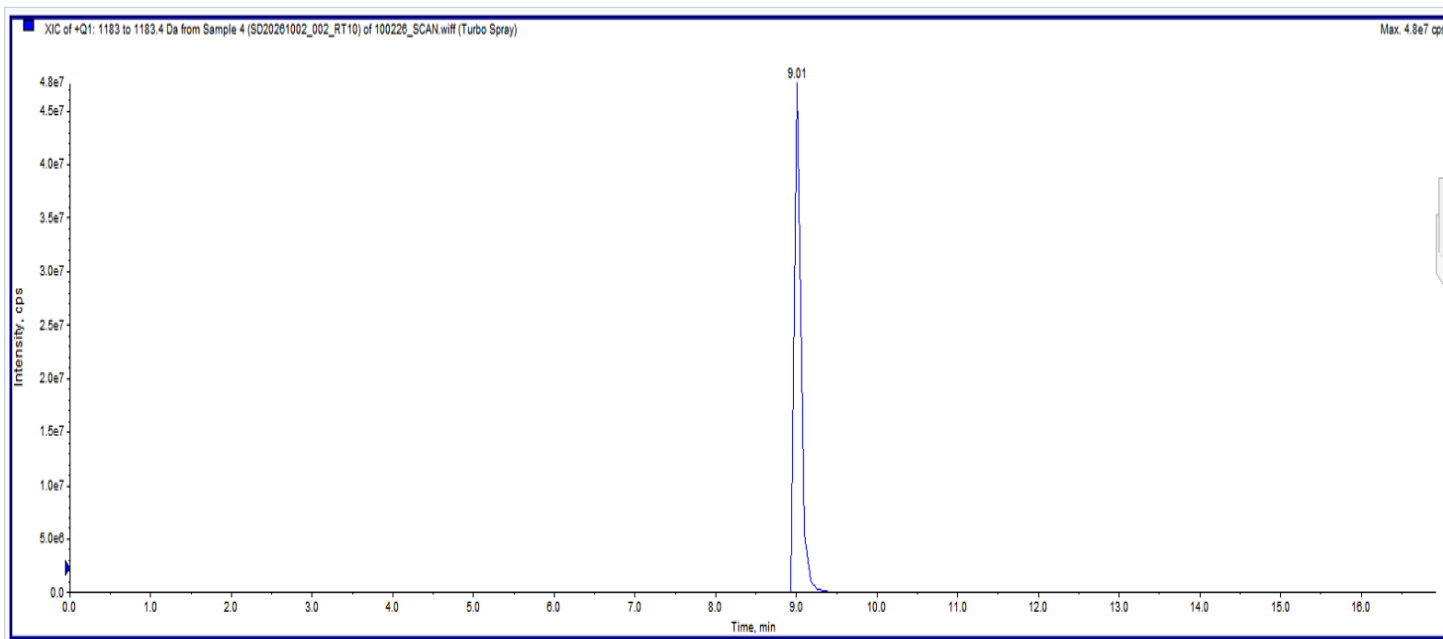
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* Net Peptide Content is calculated from precision gravimetric fill weight and HPLC purity.

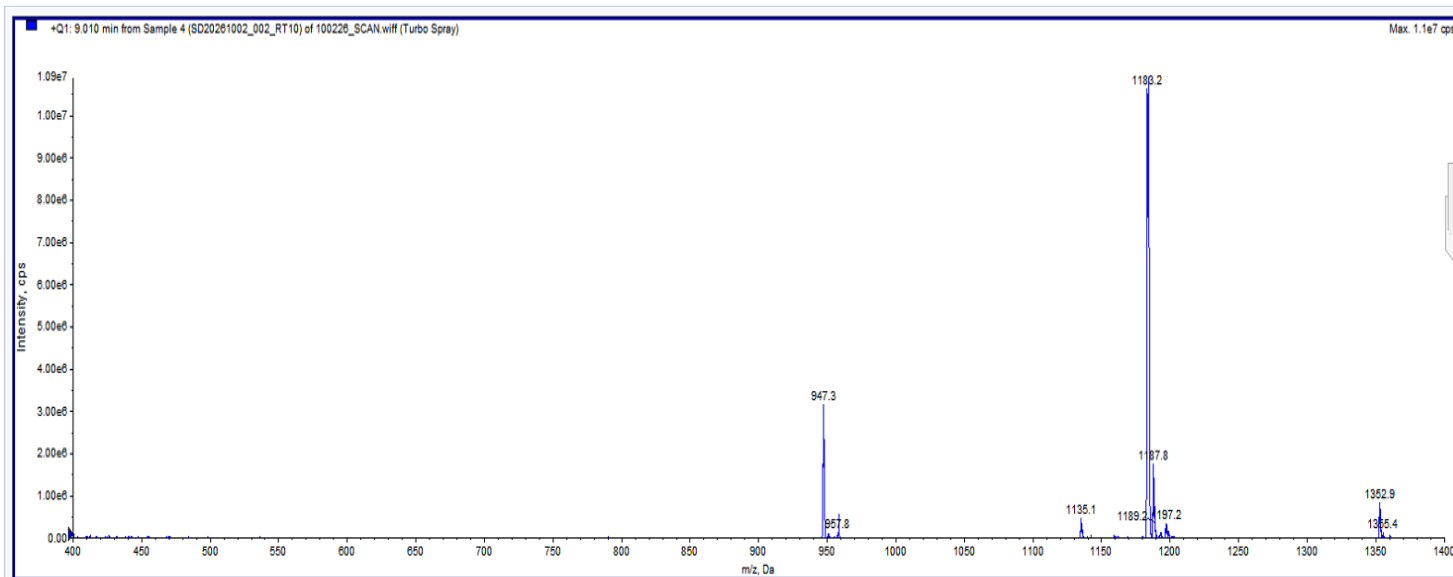
ANALYTICAL DATA

COA #: **SD20261002_002_RT0**

CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Analyte: Retatrutide

Sample ID: SD20261002_002_RT10

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

Retention Time: 9.010min

Observed peptide envelope — Retatrutide (9.010min)

1183.2m/z [M+4H]⁴

Description: Dominant precursor ion for retatrutide; primary intact charge state with highest intensity.

1135.1m/z [M+5H]

Description: Higher charge state of the same peptide, consistent with expected ionization behavior for a ~4.7kDa peptide.

947.3m/z [M+6H]

Description: Additional charge state confirming the intact molecular species.

1355.4m/z [M+3H]³

Description: Lower charge state of the same peptide envelope; typical for large peptides under ESI conditions.

Interpretation

The Q1 full scan at 9.010min shows a clean cluster of correlated ions centered on m/z1189.2, corresponding to the [M+4H]⁴ charge state of retatrutide. Adjacent ions at m/z1135, 947, and 1355 represent the expected +5, +6, and +3 charge states, confirming the intact molecular profile. All dominant peaks belong to the retatrutide envelope, with no non-correlated high-intensity ions observed.

Identity by LC-MS Q1 full scan — Retatrutide confirmed

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