

CERTIFICATE OF ANALYSIS

COA #: **SD20260804_002_RT20**

SAMPLE INFORMATION

Client	MTCompounds	Accession #	SD20260804_002
Compound	Retatrutide	Date Received	08/04/2026
Molecular Formula	C221H342N46O68	Date Reported	08/05/2026
Counter Ion / Salt	NA	Appearance	White lyophilized powder
Labeled Quantity	20 mg	Sample Form	Lyophilized Vial
Lot / Batch #	N/A	Storage	Room Temp
CAS Number	2381089-83-2	Crimp Color	White



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%	99.87 %	Pass
Net Peptide Content	LC-MS/MS	Report value	21.44 mg	Pass
Observed Molecular Mass	LC-MS	Within ± 1.0 Da	1184.0 [M+4]	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 · 08/05/2026

Chetan Soni, PhD. **Chetan Soni, PhD.**
Approved by · Laboratory Director · 08/05/2026

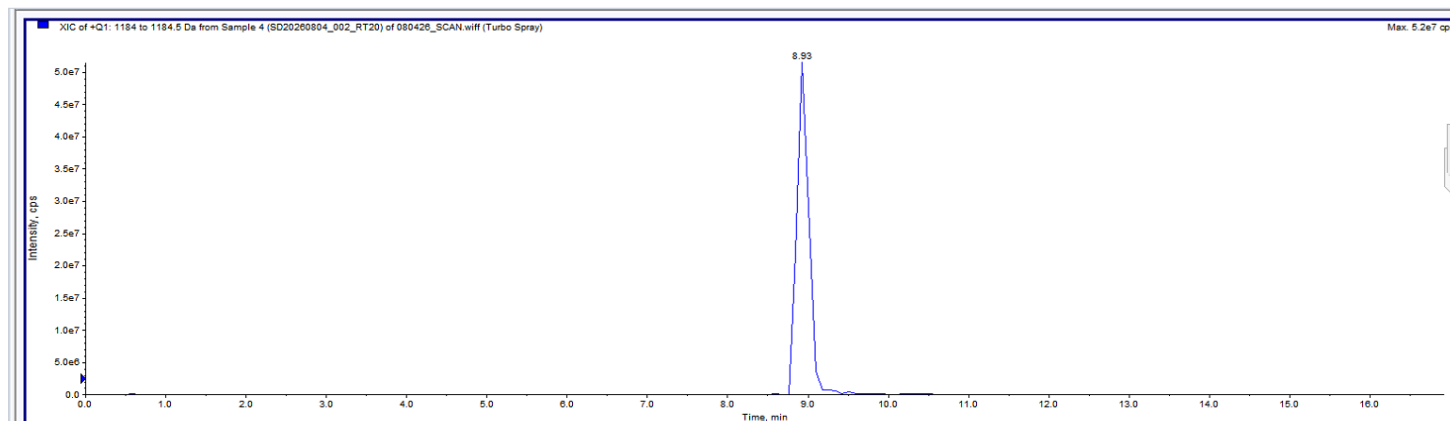
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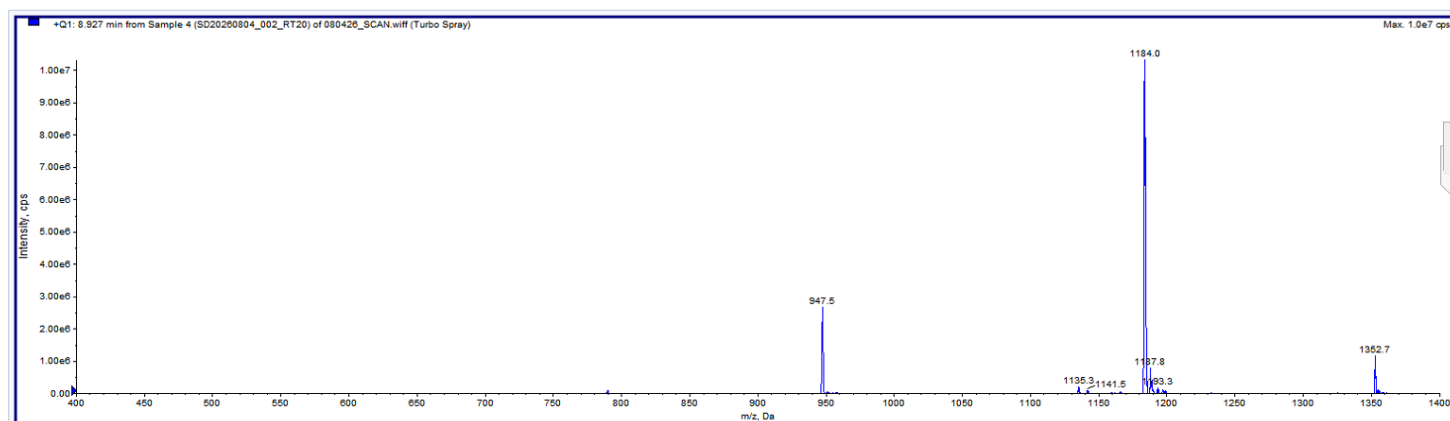
ANALYTICAL DATA

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CHROMATOGRAM



MASS SPECTRUM (LC-MS)



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ANALYTICAL INTERPRETATION

Chromatogram

Retention Time Match

Mass Spectrum (LC-MS)

Identity (LC-MS, Q1 scan – Retatrutide):

A positive-mode Q1 full scan acquired at 8.93 min shows a dominant precursor ion at m/z 1184.0, accompanied by related ions at m/z 1188.4 and m/z 1193.4, consistent with the expected multiply charged isotopic envelope for Retatrutide under the validated LC-MS conditions. Additional lower-intensity ions at m/z 947.5, and 1352.7 are also observed and correspond to alternative charge states and adducts of the same peptide species. The observed mass profile matches the theoretical precursor ion distribution for Retatrutide within the established tolerance window, confirming analyte identity in this sample.

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