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CERTIFICATE OF ANALYSIS

High-Performance Liquid Chromatography & Mass Spectrometry Report

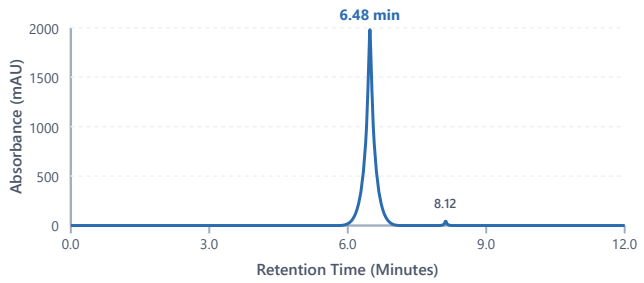
Sample Name	**Retatrutide**
Client Name	For Research Use Only (Genix Protocols)
Lot Number	134435
CAS Number	2381089-83-2
Chemical Name	Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Asp-Lys-Ser-Lys-Gln-Met-Ala-Glu-Leu-Ala-Lys-Tyr-Phe-Ile-Glu-Trp-Leu-Leu-Ala-Gln-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH_2

Molecular Formula	$C_{221}H_{342}N_{46}O_{68}$
Molecular Weight	4731.33 g/mol
Analysis Date	May 19, 2026
Report Date	May 20, 2026
Analytical Method	HPLC-UV-MS (220 nm)

ANALYTICAL RESULTS

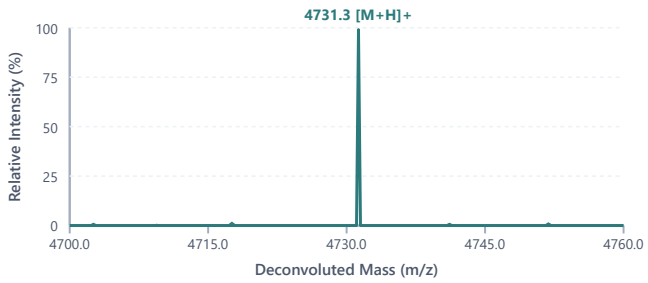
Test Parameter	Specifications	Observed Result	Status
Appearance	White to off-white lyophilized solid	Conforms	PASS
Identity (LC-MS)	Observed mass conforms to structure	4731.3 amu	PASS
Purity (HPLC-UV)	Minimum 98.00% by chromatogram area	**99.96%**	PASS
Peptide Content	Report actual content percentage	99.80%	PASS

HPLC CHROMATOGRAM (UV @ 220 NM)



Peak #	Retention Time (min)	Peak Area (mAU*s)	Area %
1	**6.48**	**15420.30**	**99.96%**
2	8.12	6.20	0.04%
Total		**15426.50**	**100.00%**

MASS SPECTRUM (ESI-MS DECONVOLUTED)



Deconvolution Results:

Expected Mass: **4731.33 amu**
Observed Mass: **4731.30 amu** (± 0.5 amu)
Conclusion: Mass matches expected molecular structure.

Report Notes & Disclaimer:
This analysis was performed by High-Performance Liquid Chromatography (HPLC) with Ultraviolet (UV) detection coupled with Electrospray Ionization Mass Spectrometry (ESI-MS). Purity value is calculated by integrating chromatogram peak areas at 220 nm. Peptide content was determined by nitrogen content elemental analysis. Salts, counter-ions, sugars (excipients), or residual water molecules resulting from lyophilization are not counted as chemical impurities under normal UV chromatographic detection protocols. The results detailed in this Certificate of Analysis relate solely to the specific sample lot number tested as received. For laboratory research use only. Not for human use.

Ken Pendarvis, ChE
Lead Analytical Chemist, MZ Biolabs
Quality Assurance Sign-Off