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Certificate Of Analysis

分析证书

No. R40E6C-E22H

产品名称 Product Name	**Retatrutide (RT40)**		
分子式 Molecular Formula	$C_{221}H_{342}N_{46}O_{68}$	生产日期 Manufacturing	2026/09/06
分子量 Molecular Weight	**4731.26**	报告日期 Report Date	2026/09/11
CAS编号 CAS No.	2381089-83-2	复验日期 Re-test Date	2028/09/05
外观 Appearance	White lyophilized powder	包装规格 Packing size	40 mg / vial
参考标准 Reference Standard	Enterprise Standard	储存条件 Storage conditions	-15°C to -25°C
批号 Batch No.	**R40E6C-E22H**	规格 Strength	40 mg
序列 Sequence	**Tyr-Aib-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-αMeLeu-Leu-Asp-Lys-Lys(AEEA-AEEA-γGlu-C20-diacid)-Ala-Gln-Aib-Ala-Phe-Ile-Glu-Tyr-Leu-Ile-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH2**		

检验项目 Tests	质量标准 Specifications	检验结果 Results
外观 Appearance	White lyophilized powder	**Conforms**
鉴别 Identity (LC-MS)	Consistent with Retatrutide	**Confirmed**
含量 Net Content	Labeled 40 mg / vial	**44.79 mg**
纯度(HPLC) Purity (HPLC-UV)	≥99.0%	**99.79%**
有关物质 Related impurities	Total impurities ≤ 1.5%	**0.21%**
主峰保留时间 Main Peak RT	Consistent with reference	**≈ 14.92 min**
微生物限度 Microbiological Examination	TAMC ≤ 100 cfu/g	**TAMC ≤ 10 cfu/g**
	TYMC ≤ 100 cfu/g	**TYMC ≤ 10 cfu/g**

仅供研究使用，禁止直接人体应用。
For research use only. Direct human application is prohibited.

分析员 Analyst: Warden Zhao

质量负责人 QC Director: Melker Zhu

复核员 Checker: Bowen Yang

Limit To Research And Submission Use
Not For Direct Human Application

Certificate Of Analysis

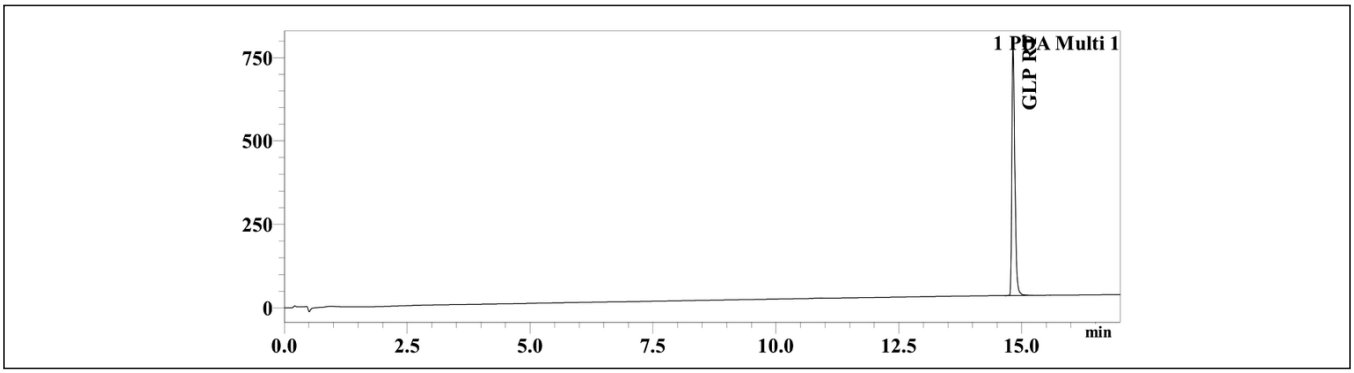
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附录 色谱图与质谱　Appendix Chromatogram & Mass Spectrum

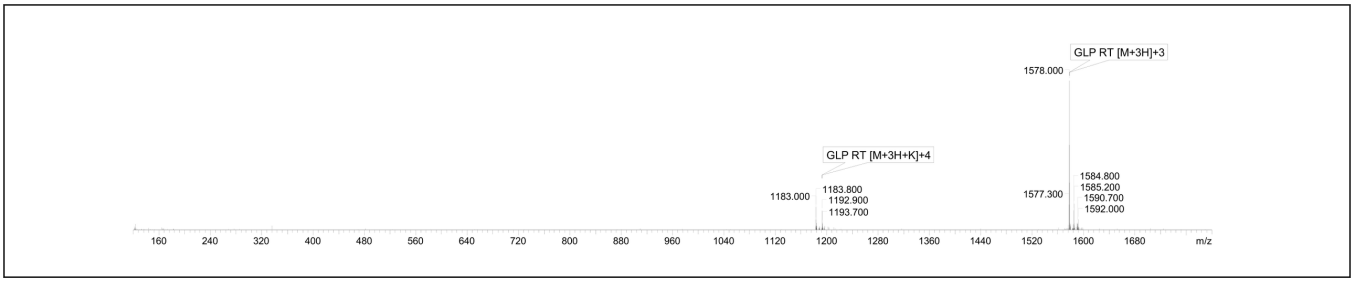
1. HPLC 色谱图 / HPLC-UV Chromatogram

Detector: 1 PDA Multi 1 | Main peak RT ≈ 14.92 min | Area% 99.79 | Identity Retatrutide



2. 质谱确认 / Mass Confirmation (LC-MS)

[M+3H]3+ 1578.000 / 1577.300 [M+3H+K]4+ 1183.000–1193.700 (3 × 1578.000 − 3 = 4731.00 ≈ MW 4731.26)



3. 方法与结论 / Method & Conclusion

检测方法 Method	HPLC-UV coupled with LC-MS
检测波长 Detection	PDA Multi 1
主峰保留时间 Main Peak RT	≈ 14.92 min (Retatrutide)
特征离子 Diagnostic ions	[M+3H]3+ 1578.000 / 1577.300 [M+3H+K]4+ 1183.0–1193.7
含量 Net Content	44.79 mg (labeled 40 mg)
纯度 Purity	99.79%
纯度结论 Purity Conclusion	**99.79% — Conforms (≥99.0%)**
含量结论 Assay Conclusion	**44.79 mg — Conforms (labeled 40 mg)**
鉴别结论 Identity Conclusion	**LC-MS confirmed as Retatrutide**

No. R40E6C-E22H | Batch R40E6C-E22H (RT40 = Retatrutide 40 mg). Manufacturing 2026/09/06. Report 2026/09/11. Re-test 2028/09/05. HPLC-UV 99.79%, related 0.21%. Net 44.79 mg. Charge envelope [M+3H]3+ 1578.000 matches C221H342N46O68. 本报告仅对所检批次有效。