

Certificate of Analysis (COA)

Product Name: Retatrutide

Lot No.: 3132027

Sequence: Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{α-Me-Leu}-Leu-Asp-Lys-{diacid-C20-γ-Glu-(AEEA)-Lys}-Ala-Gln-{Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro-Pro-Ser-NH₂

Modifications: C20 fatty diacid by γ-Glu linker + spacer

Storage Conditions: -20°C, Routine Storage: 2–8°C. Protect from light and moisture. After reconstitution, store at 2–8°C and avoid repeated freeze–thaw cycles. Use under aseptic handling conditions.

Report Date: 20 July 2026

Test Results

Test Item	Specification	Result
Appearance	White to off-white lyophilized powder	Conforms
Molecular Weight (MS)	4731.4 ±1.0 Da	4731.5 Da
Purity (HPLC)	>98%	99.2%
Retention Time (HPLC)	+0.2 min of standard	Conforms
Related Substances (HPLC)	Individual impurity ≤0.50%; Total impurities ≤2.00%	Conforms
Solubility	Freely Soluble in Water	Conforms
Acetic Acid Content	≤ 5000 ppm	870 ppm
TFA Content	≤ 50 ppm	7 ppm
DCM Content	≤ 50 ppm	N.D.
DMF Content	≤ 100 ppm	N.D.
Total Aerobic Count	≤100 CFU/g	<10 CFU/g

Yeast & Molds Count	≤10 CFU/g	<10 CFU/g
Endotoxins	≤0.5 EU/mg	<0.05 EU/mg
E. Coli	Absent	N.D.
Salmonella	Absent	N.D.
Heavy Metals	≤10 ppm	<1 ppm