

Certificate of Analysis

Product	Retatrutide	CAS No. :	2381089-83-2
Product No. :	RET	Molecular Formula	C ₂₂₁ H ₃₄ N ₅₆ O ₆₈
Sequence	Tyr-Aib-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr -Ser-Ile-α MeLeu-Leu-Asp-Lys-Lys (PEG2- γ -Glu-Eicosanedioicacid)-Ala-Gln-Aib-Ala -Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro -Ser-Ser-Gly-Ala-Pro-Pro-Pro-Ser-NH ₂	-	-
Batch No.	RET-26031501	Quantity	1275.0g
Mfg. Date	Mar. 13 th , 2026	Retest Date	Mar. 12 th , 2028
【ITEMS】		【SPECIFICATIONS】	
Appearance	White or almost white loose powder		White loose powder
Solubility	Soluble in water		Conforms
Solution clarity and color	Clear and colorless liquid (C=30mg/ml)		Conforms
Identification HPLC	The retention time of the principal peak of the test solution corresponds to that of the reference solution, as obtained in the Assay.		Conforms
Identification Mass spectrum	4731.4±1.0		4731.1
Amino acid content	2.7~3.3 1.8~2.2		3.0 2.0
Tyr Aib	4.5~5.5 3.6~4.4		5.0 4.1
Glu Gly	1.8~2.2 1.8~2.2		2.0 2.0
Thr Phe	4.5~5.5 1.8~2.2		4.9 2.0
Ser Asp	1.8~2.2 0.9~1.1		2.0 1.0
Ile α MeLeu	2.7~3.3 1.8~2.2		3.0 2.0
Leu Lys	2.7~3.3 3.6~4.4		3.0 4.0
Ala Pro	Should be detected		Conforms
AAEA			



Related substances (HPLC)	Largest peak Detected:NMT 0.5% Total Peaks Detected:NMT 2.0%	0.17% 0.78%
Purity (HPLC)	NLT 98.0%	99.20%
pH	6.5~8.5	7.3
Acid group ions	Trifluoroacetate ion NMT 0.5% Acetate ion NMT 0.5%	N.D N.D
Water content (KF)	NMT 8.0%	3.80%
Sodium ion	1.0~2.0%	1.60%
Peptide content	NLT 90.0%	93.70%
Oligomer	NMT 0.5%	N.D
Residual solvent	Methylene chloride NMT 600ppm Acetonitrile NMT 410ppm Methyl tert-butyl ether NMT 5000 ppm DMF NMT 880ppm	N.D 66ppm N.D N.D
Bacterial endotoxins	NMT 5EU/mg	<3EU/mg
Microbial Limits	Total aerobic bacteria ≤ 100 cfu/g Mould & Yeast ≤ 10 cfu/g Bile tolerant enterobacteria: absence in 1g Pseudomonas aeruginosa: absence in 1g Staphylococcus aureus: absence in 1g	Conforms Conforms absent absent absent
Assay	95.0%-105.0% (Calculated on anhydrous, ion-free basis)	99.00%
Storage	Keep in tight container, protect from light, store at a temperature of $-20\pm 5^{\circ}\text{C}$	—
Report	Li peng	Date: Mar. 13, 2026
Reviewer	Pang Hailun	Date: Mar. 13, 2026



Conclusion This batch of product complies with Enterprise Standard.
It is only supplied as chemical product. It is only for R&D use