

Certificate of Analysis

Product	Retatrutide	CAS No.:	2381089-83-2
Product No.:	RET	Molecular Formula	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Sequence	Tyr-Aib-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-αMeLeu-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. 15 th , 2026	Retest Date	Mar. 14 th , 2028

【ITEMS】		【SPECIFICATIONS】	【RESULTS】
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
	Mass spectrum	4731.4±1.0	4731.1
Amino acid content		Tyr: 2.7~3.3	3.0
		Aib: 1.8~2.2	2.0
		Glu: 4.5~5.5	5.0
		Gly: 3.6~4.4	4.1
		Thr: 1.8~2.2	2.0
		Phe: 1.8~2.2	2.0
		Ser: 4.5~5.5	4.9
		Asp: 1.8~2.2	2.0
		Ile: 1.8~2.2	2.0
		αMeLeu: 0.9~1.1	1.0
		Leu: 2.7~3.3	3.0
		Lys: 1.8~2.2	2.0
		Ala: 2.7~3.3	3.0
		Pro: 3.6~4.4	4.0
		AEEA: Should be detected	Conforms



Related substances(HPLC)	Largest peak Detected: NMT 0.5% Total Peaks Detected: NMT 2.0%	0.17% 0.78%
Purity(HPLC)	NLT 98.0%	99.2%
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%	3.8%
Sodium ion	1.0~2.0%	1.6%
Peptide content	NLT 90.0%	93.7%
Oligomer	NMT 0.5%	N.D
Residual solvent	Methylene chloride NMT 600ppm Acetonitrile NMT 410 ppm 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	Conforms
	Mould & Yeast ≤ 10 cfu/g	Conforms
	Bile tolerant enterobacteria: absence in 1g	absent
	Pseudomonas aeruginosa: absence in 1g	absent
	Staphylococcus aureus: absence in 1g	absent
Assay	95.0%~105.0% (Calculated on anhydrous, ion-free basis)	99.0%
Storage	Keep in tight container, protect from light, store at a temperature of $-20\pm 5^{\circ}\text{C}$.	
Report	Li peng	Date 2026.3.15
Reviewer	Fang Hailan	Date 2026.3.15
Conclusion: This batch of product complies with Enterprise Standard.		

It is only supplied as chemical product.

It is only for R&D use.