

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- α MeLeu-Leu-Asp-Lys-Lys(PEG2- γ -Glu-Eicosanedioic acid)-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 \pm 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
		α MeLeu: 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%	0.17%
	Total Peaks Detected: NMT 2.0%	0.78%
Purity(HPLC)	NLT 98.0%	99.2%
pH	6.5~8.5	7.3
Acid group ions	Trifluoroacetate ion NMT 0.5%	N.D
	Acetate ion NMT 0.5%	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	N.D
	Acetonitrile NMT 410 ppm	66ppm
	Methyl tert-butyl ether NMT 5000 ppm	N.D
	DMF NMT 880ppm	N.D
Bacterial endotoxins	NMT 5EU/mg	<3EU/mg
Microbial Limits	Total aerobic bacteria ≤100cfu/g	Conforms
	Mould & Yeast ≤10cfu/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±5°C.	
Report	<i>Li peng</i>	Date 2026.3.15
Reviewer	<i>Fang Hailan</i>	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.