

CERTIFICATE OF ANALYSIS

Product Name:	Retatrutide		
Sequence	Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile-{ α -Me-Leu}-Leu-Asp-Lys-{diacid-C20-gamma-Glu-(AEEA)-Lys}-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.	25082002	CAS No.	2381089-83-2
Report Date	August 22, 2025	Formula	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Retest Date	August 21, 2027	Quantity	870g
Salt Type	Na ⁺		
Analytical Results			
Items	Specifications		Results
Appearance	White powder		Conforms
Solubility	Soluble in water \geq 50mg/ml		Conforms
Related substances (HPLC)	Maximum single impurity \leq 0.5%		0.31%
	Total impurities \leq 2.0%		0.80%
Purity	\geq 98%		99.20%
Water Content	\leq 10%		4.60%
Acetic acid	\leq 2%		ND
Sodium ion	\leq 3%		1.60%
Trifluoroacetic acid	\leq 5000ppm		ND
Residual solvent	Methanol: \leq 300ppm		ND
	Isopropanol: \leq 500ppm		ND
	Acetonitrile: \leq 410ppm		16ppm
	Methylene chloride: \leq 600ppm		ND
	N,N-Dimethylformamide: \leq 800ppm		ND
Assay	95.0% ~ 105.0%		99.70%
Peptide Content	\geq 90%		93%
pH	6.0-9.0		7.3
Bacterial Endotoxins	$<$ 5EU/mg		Conforms
Mass Spectrum	4731.33 \pm 1		Conforms
Storage Conditions	In the air tight container, protected from light at temperature -20 °C.		
Conclusion	Conformed with the product standards .		
NOTE	Not for human use, for research purpose only.		