

	Certificate of Analysis			
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Certificate of Analysis

Report Form No.: STP-QS-6009-04-QC-2607002

Product Name	Retatrutide	Lot No.	6009-0626-03
Quantity	2.941kg	Manufacturing Date	2026.06.20
CAS No.	2381089-83-2	Expiration Date	2028.06.19
Molecular Formula	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈	Report Date	2026.07.07
Inspection standard	Enterprise internal control standard STP-QS-6009		
Test	Specification	Result	
Appearance	White or almost white powder or friable mass	White powder	
Solubility	Soluble in water	Conforms	
Molecular Weight	4731.33±1Da	4731.50	
Amino Acid Analysis	Asp 1.6 ~ 2.4	1.8	
	Thr 1.6 ~ 2.4	1.8	
	Ser 4.0 ~ 6.0	4.2	
	Glu 4.0 ~ 6.0	4.6	
	Gly 3.2 ~ 4.8	3.6	
	Ala 2.4 ~ 3.6	2.7	
	Ile 1.6 ~ 2.4	2.3	
	Leu 2.4 ~ 3.6	2.7	
	Tyr 2.4 ~ 3.6	2.6	
	Phe 1.6 ~ 2.4	1.8	
	Lys 1.6 ~ 2.4	1.8	
	Pro 3.2 ~ 4.8	3.5	
pH	7.0 ~ 8.0	7.4	
TFA	≤ 0.5%	0.06%	
Related substances	Single impurity ≤ 0.5%	0.1%	
	Total impurities ≤ 1.0%	0.2%	
Purity	≥ 99.0%	99.4%	
Polymers	≤ 0.5%	ND	
Residual Solvents	Methanol ≤ 0.3%	0.05%	
	Acetonitrile ≤ 0.041%	0.02%	
	DCM ≤ 0.06%	ND	
	MTBE ≤ 0.5%	ND	
	DMF ≤ 0.088%	ND	
Water	≤ 8.0%	4.3%	

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Test	Specification	Result
Sodium	≤ 5.0%	1.2%
Bacterial endotoxins	< 10 EU/mg	Conforms
Microbial contaminate	TAMC ≤ 100 cfu/g	35cfu/g
	TYMC ≤ 100 cfu/g	25cfu/g
Assay	95.0%~102.0% (Calculated on the anhydrous, solvent-free, TFA-free, Sodium-free basis)	99.1%
Conclusion	This product is tested according to the enterprise internal control standard STP-QS-6009, and all the above items meet the requirements	

Remark: This product is strictly for scientific research purposes only. It is prohibited from being used for clinical diagnosis, treatment or human application.

Reporter: Jing jing Zhang

Approved by: Jing hong Zhang

