

HANGZHOU PATIENCE CHEMICAL CO.,LTD

CERTIFICATE OF ANALYSIS

PRODUCT: Retatrutide		QUANTITY : 1321.8G
REFERENCE STANDARD : Enterprise standard		BATCH NO. : P20250108
ANALYSIS DATE: 2025-01-29		REPORT DATE: 2025-02-05
MANUFACTURE DATE : 2025-01-08		EXPIRY DATE : 2027-01-07
Item	Specification	Result
Appearance	White to off white powder or loose lump	Conforms
Solubility	Soluble in water	Conforms
Amino acid analysis	Glu(4.8–7.2) Lys(0.8–1.2) Asp(1.6–2.4) Thr(1.6–2.4) Ala(2.4–3.6) Arg(1.6–2.4) Leu(1.6–2.4) Phe(1.6–2.4) His(0.8–1.2) Ser(2.4–3.6) Gly(2.4–3.6) Gln(1.6–2.4) Tyr(0.8–1.2) Trp(0.8–1.2) Val(1.6–2.4) Ile(0.8–1.2)	Conforms
Identification	HPLC	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution
	MS	4731.33±1
Clarity and color of solution	Clear and colorless	Conforms
Water	<10.0%	5.1%
pH	6.0~9.0	7.3
Acetic acid	<2%	ND
Related substance	Any individual impurity≤1.0% Total impurity≤2.0%	0.23% 0.61%
Purity	≥98.0%	99.51%
Residual solvents	Methanol:≤0.3%	N.D
	Isopropanol:≤0.5%	N.D
	Acetonitrile:≤0.041%	0.012%
	Methylene chloride:≤0.06%	N.D
	N,N-Dimethylformamide:≤0.088%	N.D
	Triethylamine:≤0.032%	N.D
	Tert-butyl methyl ether:≤0.5%	N.D
Bacterial endotoxin	<10EU/mg	Conforms
Microbial limit	Aerobic bacteria ≤ 1000cfu/g Molds and yeasts.≤ 100cfu/g Escherichia coli:Absent	<10cfu/g <10cfu/g Absent
Peptide Assay	≥90.0%	93.01%
Result	The above product conforms to the requirements.	
Storage condition	Store at a temperature of 2~8°C,protected from light.	

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