

CERTIFICATE OF ANALYSIS

1. PRODUCT INFORMATION

Product Name	Retatrutide Peptide
CAS Number	2381089-83-2
Molecular Formula	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Form	Lyophilized powder
Molecular Weight	4731.35 Da
Batch / Lot Number	PE20260117
Manufacturing Date	01/17/2026
Report Date	01/27/2026
Retest Date	01/16/2028
Quantity	10 mg
Storage Conditions	Light-proof, sealed, stored at -20°C ±5°C

2. GENERAL PROPERTIES

No.	Test Parameter	Specification	Result	Status
2.1	Appearance	White to off-white powder	Conforms	Pass
2.2	Solubility	Freely soluble in water	Conforms	Pass
2.3	Water Content (K.F.)	NMT 8.0%	1.0%	Pass
2.4	pH	6.0 - 9.0	6.8	Pass
2.5	Acetic Acid	NMT 0.5%	N.D.	Pass
2.6	TFA (Trifluoroacetic Acid)	NMT 0.5%	0.01%	Pass
2.7	Sodium Ion	NMT 5.0%	1.2%	Pass

3. RESIDUAL SOLVENTS

No.	Test Parameter	Specification	Result	Status
3.1	Methanol	NMT 3000 ppm	20 ppm	Pass
3.2	Acetonitrile	NMT 410 ppm	50 ppm	Pass
3.3	Dichloromethane	NMT 600 ppm	N.D.	Pass
3.4	N,N-Dimethylformamide (DMF)	NMT 880 ppm	N.D.	Pass

4. RELATED SUBSTANCES (HPLC)

No.	Test Parameter	Specification	Result	Status
4.1	Maximum Single Impurity	NMT 0.5%	0.33%	Pass
4.2	Total Impurities	NMT 2.0%	0.87%	Pass

4.3	Purity (by HPLC)	NLT 98.0%	99.1%	Pass
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5. BIOLOGICAL TESTING

No.	Test Parameter	Specification	Result	Status
5.1	Bacterial Endotoxins	NMT 10 EU/mg	Conforms	Pass
5.2	Microbial Limits	NMT 100 cfu/g	NMT 1 cfu/g	Pass

6. ASSAY

No.	Test Parameter	Specification	Result	Status
6.1	Peptide Content	NLT 85.0%	96.9%	Pass

7. CONCLUSION

The product tested complies with the specifications.

--- End of Certificate ---