

Certification of Analysis

Product Name	Retatrutide	CAS No.	2381089-83-2
Molecular Formula	C221H342N46O68	Batch No.	P250213-YS496988
Molecular Weight	4731.33	Manufacturing Date	13.03.2025
Storage	Cool dry place	Retest Date	13.03.2025
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-NH2		
TEST		SPECIFICATION	RESULT
1	Appearance	White powder	White powder
2	Solubility	Soluble in water or acetic acid to give a clear, colorless solution	Conforms
3	Identification (MS)	4731.33 ± 1.0	4731.25
4	Amino Acid Composition	$\pm 10\%$ of theoretical	Conforms
5	Peptide Purity (By HPLC)	$\geq 98.0\%$ by area integration	99.41%
6	Related Substance (By HPLC)	Total Impurities($\%$) $\leq 2.0\%$ Largest Single Impurity($\%$) $\leq 1.0\%$	0.59% 0.31%
7	Acetate Content (By HPLC)	$\leq 15.0\%$	11.3%
8	Water Content (Karl Fischer)	$\leq 8.0\%$	4.2%
9	Bacterial Endotoxins	$\leq 5\text{EU/mg}$	Conforms
10	Peptide Content (N determination)	$\geq 80.0\%$	85.46%
11	Assay (By Anhydrous, Acetic Acid-free)	95.0~105.0%	101.12%