



Certificate of Analysis

Product Name	Tirzepatide sodium salt
Catalog No.	V4234
Batch No.	V42340608

1. Physical and Chemical Properties

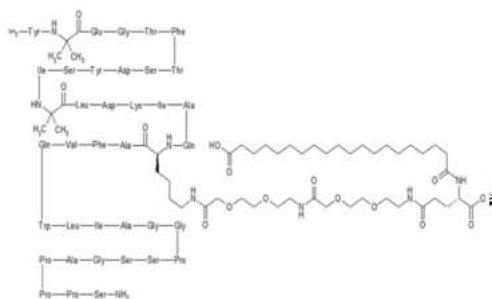
Appearance	Powder
Molecular Formula	C ₂₂₅ H ₃₄₇ N ₄₈ NaO ₆₈
Molecular Weight	4832.51
Exact Mass	4814.30
Purity	98.20%
CAS No.	2023788-19-2
Production Date	08/22/2023
Retest Date	08/21/2025
Appearance	White to off white powder
Solubility	Soluble in 50% aqueous acetonitrile
Peptide Assay	94.04%
Clarity and color of solution	Clear and colorless
Water	2.2%
Sodium ion	2.0%
pH	7.14
Related Substances(HPLC)	Any individual impurity: 0.69% Total impurity: 1.80%
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

2. Analytical Data

NMR	Consistent with structure
Mass Spectrum	Consistent with structure

Products are for research use only . Not for human or veterinary use

3. Structure



4. Storage Condition

Short term storage (weeks)	0 - 4 °C under dry condition for six weeks
Long term storage (months)	-20 °C under dry condition for two years

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