



Certificate of Analysis

Product Name	Tirzepatide sodium salt
Catalog No.	V4234
Batch No.	V42340408

1. Physical and Chemical Properties

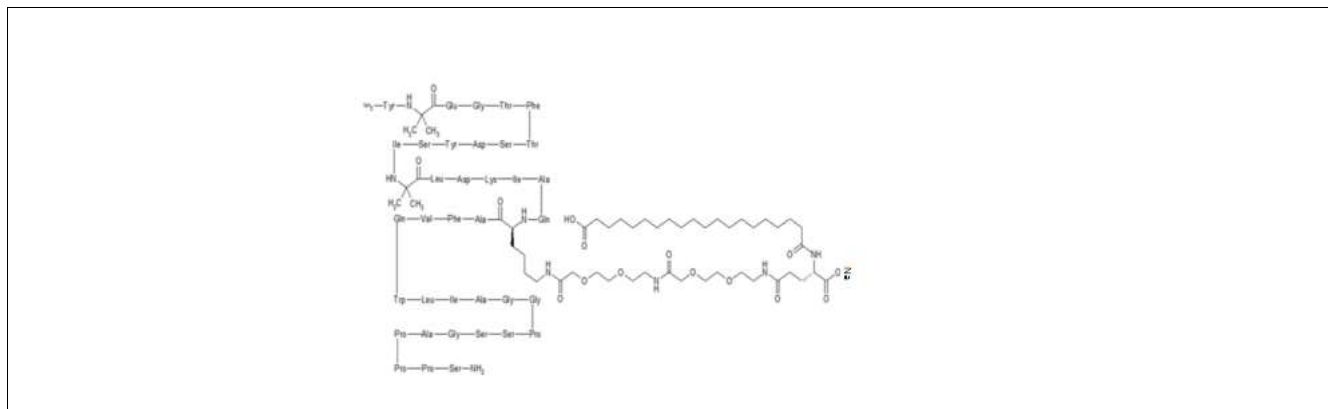
Appearance	Powder
Molecular Formula	C ₂₂₅ H ₃₄₇ N ₄₈ NaO ₆₈
Molecular Weight	4835.51
Exact Mass	4810.5249
Purity	98.23%
CAS No.	2023788-19-2
Production Date	12/26/2022
Expiration Date	12/25/2024
Appearance	White to off white powder
Solubility	Soluble in 50% aqueous acetonitrile
Peptide Assay	93.3096
Clarity and color of solution	Clear and colorless
Water	3.8%
Sodium ion	1.2%
Related Substances(HPLC)	Any individual impurity: 0.72% Total impurity: 1.7796
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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Tel: +1 708 310-1919

InvivoChem LLC
Fax: +1 708 557-7486

Email: info@invivochem.com