Big Bang Compounds

CERTIFICATE OF ANALYSIS · LOT RELEASE

bigbangcompounds.com

CERTIFICATE NO.
PL–26–00082

VERIFICATION KEY
LC7FVC2H

Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR BIG BANG COMPOUNDS

Retatrutide 10 mg

Lot **PL-2609-082** · Lyophilized powder · Label claim **10 mg/vial** · Distributed as **GIP3-RT**

TESTED IN-HOUSE BY PRYMALAB

In-house analytical result, not an independent third-party test

LOT / BATCH NUMBER	DATE MADE	DATE OF ANALYSIS	DATE ISSUED
PL–2609–082	**2026-09-18**	**2026-09-19**	**2026-10-03**
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-09-18	**400 / 3**	–20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND
Retatrutide
LY3437943; GIP/GLP-1/glucagon receptor triple agonist

CAS NUMBER
2381089-83-2

MOLECULAR FORMULA
$C_{221}H_{342}N_{46}O_{68}$

THEORETICAL MASS (AVG.)
4731.4 Da

SEQUENCE

H–Y–Aib–QGTFTSDYSI–[αMeLeu]–LDKK(AEEA–γGlu–C20 diacid)AQ–Aib–AFIEYLLEGGPSSGAPPPS–NH_2 (39 residues; Aib2, α–methyl–Leu13, Aib20; Lys17 acylated with eicosanedioic acid via γ–Glu and AEEA; C–terminal amide)

PURITY · RP-HPLC, AREA %
99.24%
Specification 99.0% • main peak at 8.62 min

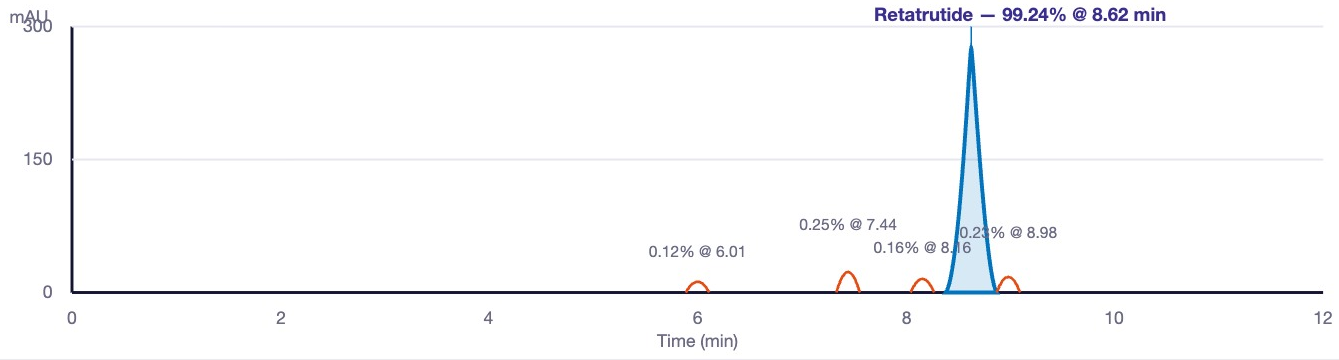
IDENTITY · OBSERVED MASS
4731.1 Da
Theoretical 4731.4 Da • –0.3 Da (–63 ppm)

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Appearance	Visual inspection	White to off-white lyophilized powder	White lyophilized powder	**PASS**
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	4731.1 Da	**PASS**
Purity	RP-HPLC, UV 214 nm, area%	99.0%	99.24%	**PASS**
Largest impurity	RP-HPLC, area%	1.0%	0.25% at 7.44 min (Gln 3 /Gln 19 deamidation)	**PASS**
Water content	Karl Fischer	5.0%	1.7%	**PASS**
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.03 EU/mg	**PASS**
Sterility / bioburden	USP <71>, membrane filtration	No growth after 14 days	No growth; conforms	**PASS**

1 HPLC CHROMATOGRAM

Data file: RET_PL-2609-082_20260919_01 · Column C18, 150 × 4.6 mm · UV 214 nm



Baseline uncropped; main peak and impurities labeled with retention times. Peak table on page 2.

For laboratory research use only. Not for human or veterinary use.

2 HPLC METHOD · RET_PL-2609-082_20260919_01

INSTRUMENT
Waters Alliance e2695, SN E2695B742

DATA SYSTEM
Empower 3, Build 3471

DETECTOR
Waters 2998 PDA

DETECTION WAVELENGTH
214 nm

COLUMN
C18, 150 × 4.6 mm, 3.5 µm

COLUMN PART / SERIAL
186003326 / USHX19700

MOBILE PHASE A
0.1% TFA in water

MOBILE PHASE B
0.1% TFA in MeCN

FLOW RATE
1.0 mL/min

COLUMN TEMPERATURE
40 °C

INJECTION VOLUME
20 µL

RUN TIME
12 min

SAMPLE DILUENT
0.1% TFA in 30% MeCN

SAMPLE CONCENTRATION
0.5 mg/mL

BLANK INJECTED
Yes

REFERENCE STANDARD
In-house Retatrutide reference, lot PL-RS-RET-01, RT 8.59 min

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	65	35
2.0	65	35
9.0	25	75
10.0	15	85
11.0	15	85
12.0	65	35

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	6.01	5,677	0.12
2 (deamid.)	7.44	11,828	0.25
3	8.16	7,570	0.16
4	**8.62**	**4,695,143**	**99.24**
5	8.98	10,882	0.23
Total		4,731,100	100.00

Threshold 0.05% area · Blank subtracted: Y · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT
Waters Acquity SQD

IONIZATION / MODE
ESI, positive

OBSERVED M/Z (CHARGE)
947.2 (5+ [M+5H]) · 789.5 (6+ [M+6H])

DECONVOLUTED MASS
4731.1 Da

THEORETICAL MASS
4731.4 Da

DIFFERENCE
−0.3 Da (−63 ppm)

DATA FILE
RET_PL-2609-082_MS_20260919_01

ACCEPTANCE
Within ± 1.0 Da

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content	PrymaLab	2026-09-19	RPT-KF-PL-2609-082
Endotoxin	PrymaLab	2026-09-19	RPT-ET-PL-2609-082
Sterility	PrymaLab	2026-09-19	RPT-ST-PL-2609-082
Peptide content	PrymaLab	2026-09-19	RPT-AA-PL-2609-082

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

7 REVIEW AND APPROVAL

D. Reynolds
Analyst · performed the testing
Date: 2026-09-19

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-02

M. Phelps
Lab Director · approved for release
Date: 2026-10-03

Raw data retained at: Empower 3 (Build 3471), project PL-2609, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. This copy is issued for Big Bang Compounds, a distributor of the lot; the brand shown does not change the laboratory, the method or the results. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00082 and key LC7FVC2H at prymalab.net/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.