Mesa Research

CERTIFICATE OF ANALYSIS · LOT RELEASE

mesaresearchcocom

CERTIFICATE NO.
PL-26-00280

VERIFICATION KEY
J5NBJNCF

Scan or enter both at prymalabnet/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR MESA RESEARCH

Retatrutide 10 mg

Lot PL-2610-167 · Lyophilized powder · Label claim 10 mg per vial

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-2610-167	2026-10-06	2026-10-07	2026-10-21
RETEST / EXPIRY	**UNITS IN LOT / SAMPLED**	**STORAGE**	**CERTIFICATE TYPE**
2028-10-06	333 / 2	−20 °C, desiccated, dark	Lot COA, 2 pages

COMPOUND	CAS NUMBER	MOLECULAR FORMULA	THEORETICAL MASS (AVG.)
Retatrutide	2381089-83-2	$C_{221}H_{342}N_{46}O_{68}$	4,731.33 Da

SEQUENCE
acylated tri-agonist

PURITY · RP-HPLC, AREA %
99.40%
Specification ≥ 99.0% · main peak at 18.43 min

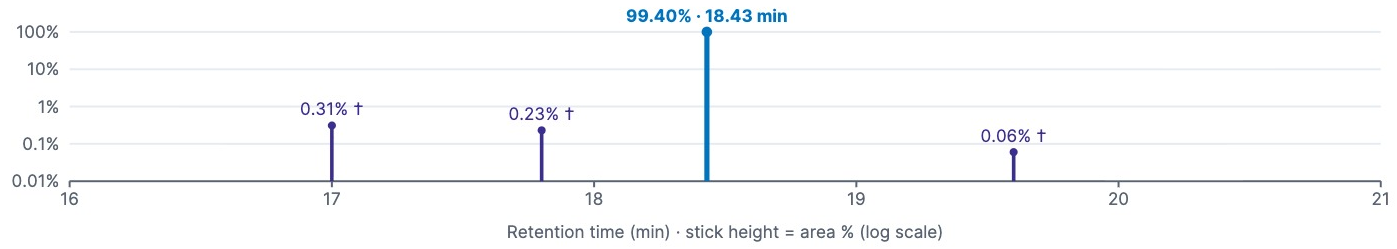
IDENTITY · OBSERVED MASS
4,731.22 Da
Theoretical 4,731.33 Da · −0.11 Da (23 ppm)

OVERALL CONCLUSION
PASS
Meets every specification for the tests performed

TEST	METHOD	SPECIFICATION	RESULT	CONCLUSION
Identity (mass)	LC-MS, ESI positive	Theoretical ± 1.0 Da	4,731.22 Da	PASS
Purity	RP-HPLC, UV 214 nm, area%	≥ 99.0%	99.40%	PASS
Largest impurity	RP-HPLC, area%	≤ 1.0 %	0.31% (RT 17.00)	PASS
Water content	Karl Fischer	≤ 5.0%	1.49%	PASS
Bacterial endotoxin	LAL, kinetic	≤ 5.0 EU/mg	0.230 EU/mg	PASS
Sterility	USP <71>, 14-day	No growth	No growth	PASS

1 HPLC CHROMATOGRAM

Data file: PL-2610-167-HPLC.raw · Column C18, 150 × 4.6 mm · UV 214 nm



Peak plot drawn from the integrated peak table (area %, log scale); it is not the instrument trace, which is retained in PL-2610-167-HPLC.raw. † Nominal reference retention time for the assigned impurity; the main-peak RT is observed in this lot.

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

2 HPLC METHOD · PL-2610-167-HPLC.RAW

INSTRUMENT
Waters Alliance e2695

DATA SYSTEM
Empower 3

DETECTOR
UV absorbance

DETECTION WAVELENGTH
214 nm

COLUMN
C18, 150 × 4.6 mm, 3.5 µm

MOBILE PHASE A
0.1% TFA in water

MOBILE PHASE B
0.1% TFA in MeCN

GRADIENT
5–95% B over 25 min (linear)

FLOW RATE
1.0 mL/min

COLUMN TEMPERATURE
40 °C

INJECTION VOLUME
10 µL

3 GRADIENT PROGRAM

TIME (MIN)	% A	% B
0.0	95	5
25.0	5	95

4 PEAK TABLE

PEAK	RT (MIN)	AREA	AREA %
1	17.00 †	—	0.31
2	17.80 †	—	0.23
3	**18.43**	**—**	**99.40**
4	19.60 †	—	0.06
Total		—	100.00

Peaks: 1 deamidation product; 2 isoaspartate (isoasp) variant; 3 main peak (Retatrutide); 4 tryptophan oxidation product. Area % from the integrated peak table (absolute areas are not part of the lot-release export). † nominal reference RT for the assigned impurity. Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

INSTRUMENT
Waters SQD

IONIZATION / MODE
ESI, positive

REFERENCE M/Z (CHARGE)
1183.84 (4+) · 947.27 (5+)

DECONVOLUTED MASS
4,731.22 Da

THEORETICAL MASS
4,731.33 Da

DIFFERENCE
−0.11 Da (23 ppm)

DATA FILE
PL-2610-167-MS.d

ACCEPTANCE
Within ± 1.0 Da

6 ADDITIONAL TESTS

TEST	PERFORMED BY	DATE	REPORT / FILE
Water content (Karl Fischer)	PrymaLab Analytical	2026-10-07	—
Endotoxin (LAL, kinetic)	PrymaLab Analytical	2026-10-07	—
Sterility (USP <71>, day-14 read-out)	PrymaLab Analytical	2026-10-21	—

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: 2026-10-21

S. Calloway
Reviewer · checked against raw data
Date: 2026-10-21

M. Phelps
Lab Director · approved for release
Date: 2026-10-21

Raw data retained at: Empower 3, project PL-2610, 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 Mesa Research, 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-26-00280 and key J5NBJNCF at prymalabnet/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.