

RT-3 — Certificates of Analysis

Every batch we have tested for this product, newest first.

Match the strength on your vial to the rows below and turn to that page.

PAGE	STRENGTH	BATCH / LOT
2–16	6mg, 10mg, 12mg, 15mg, 20mg, 23mg, 30mg, 31mg, 76mg, 93mg	8/22/2026
17–19	10mg, 84mg	6/24/2026 · Lot IWR-5859103
20–22	9mg, 30mg	6/24/2026 · Lot IWR-4862753
23–25	5mg, 15mg	6/24/2026 · Lot IWR-1764133
26–32	5mg, 10mg, 11mg, 14mg, 16mg, 20mg, 30mg, 82mg	4/16/2026

Lot Number: **DPS-5615336**
 Brand / Distributed by: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Analysis Date: **07/24/2026**
 Searchable via: **horizonanalytical.com**

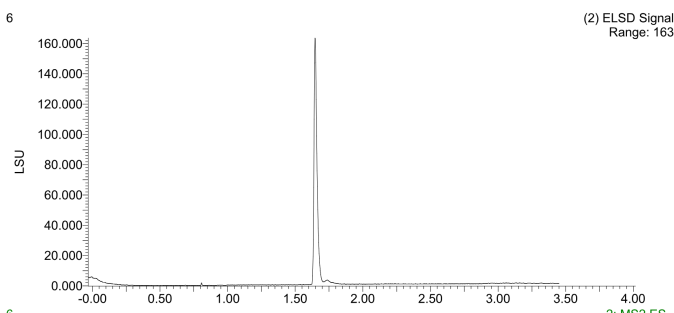
Compound:	Retatrutide
Report Number:	1020358
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

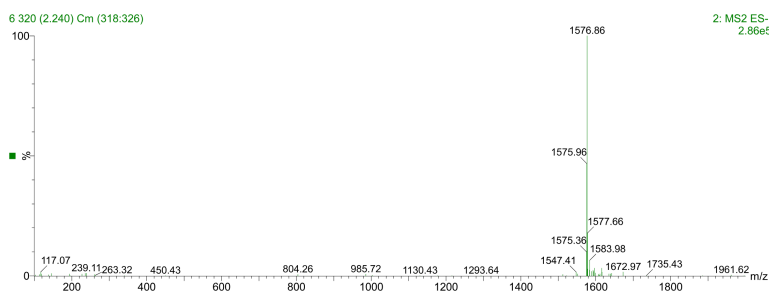
Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	10mg	9.93mg	
Purity:	>98%	99.39%	



UPLC



MS

Aleksey Yevtodiyenko PhD
 Research and Formulation Chemist

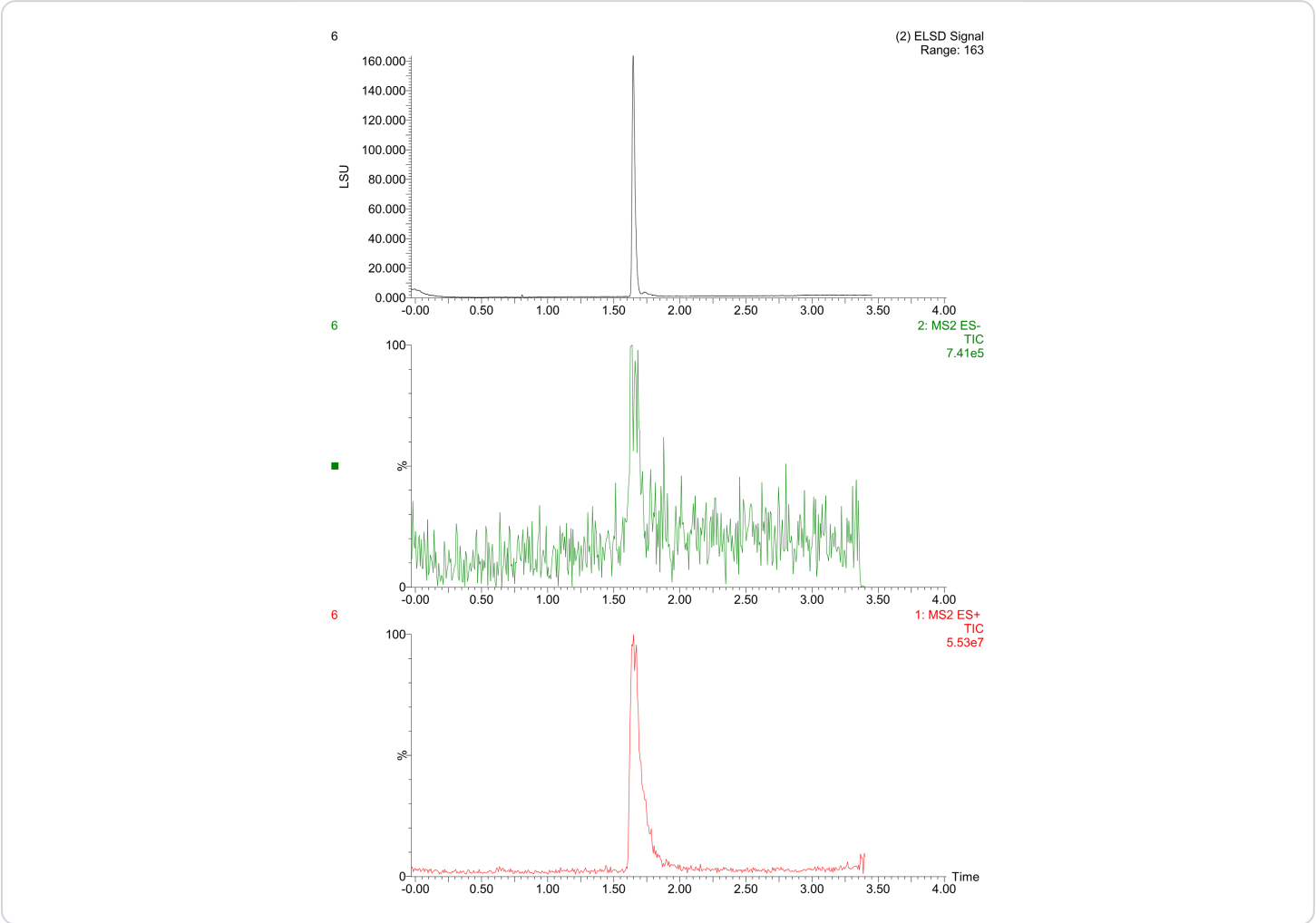


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

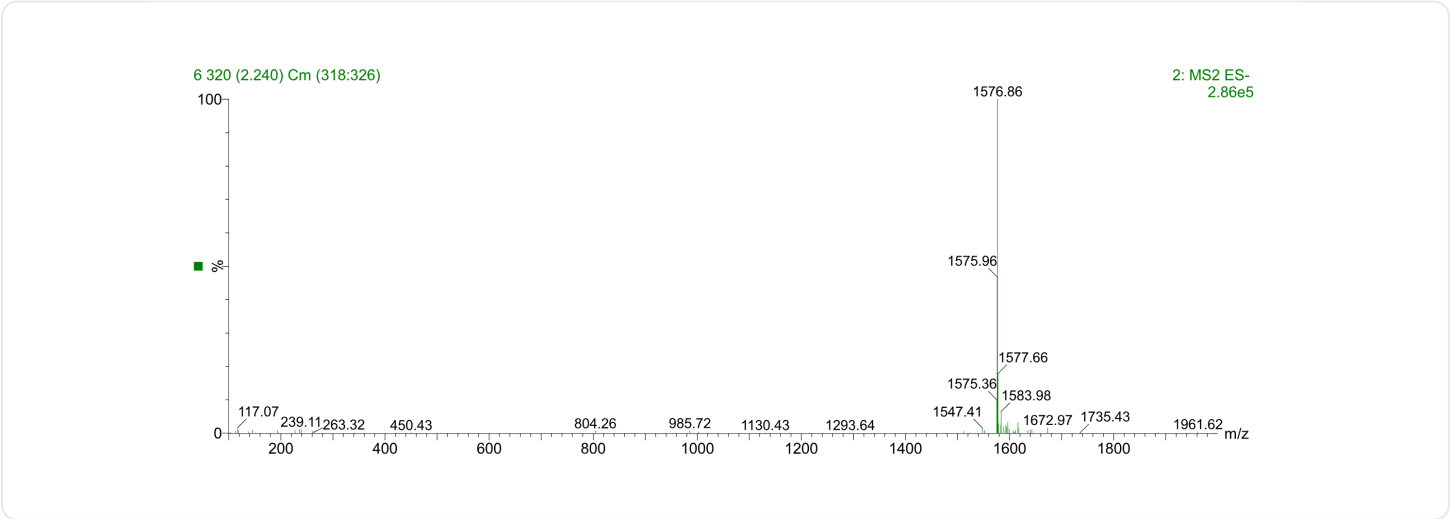
Lot Number: DPS-5615336
Brand / Distributed by: Iron Within Research
Identity: www.ironwithinresearch.com

Analysis Date: 07/24/2026
Searchable via: horizonanalytical.com

Retatrutide (10mg) • Pubchem CID: 171390338
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: [DPS-5615336](#)
Brand / Distributed by: [Iron Within Research](#)
Identity: www.ironwithinresearch.com

Analysis Date: [07/24/2026](#)
Searchable via: horizonanalytical.com

Compound:	Retatrutide
Report Number:	1020361
Appearance:	-

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

Endotoxin Test

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Pass	
Endotoxin:	-	< 0.05 EU/mL	

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist



This endotoxin analysis was performed under standard laboratory conditions using validated testing methodologies to ensure accurate and reliable results. The analysis is intended for informational and research purposes only.

Contact at: contact@horizonanalytical.com

Proudly Owned and Operated in the USA 



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com |
summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Retatrutide — 20 mg

PASS

BATCH #

IWR-2607-RT20-A

PURITY

99.64%

MASS

22.23 mg

IDENTITY

Confirmed

COA #:

SBA-26-0024

Method:

Full QC Panel

Lot Number:

IWR-2607-RT20-A

Analysis Date:

2026-08-02

Labeled Content:

20 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

Purple

#760A7D

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Retatrutide	Confirmed
Purity (HPLC)	>= 98.0%	99.64%
Content (gross)	Report only	22.23 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.03 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0024
Access Code: 7X93ZFKR
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com | summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Retatrutide — 10 mg

PASS

BATCH #

IWR-2607-RT10-A

PURITY

99.95%

MASS

11.23 mg

IDENTITY

Confirmed

COA #:

SBA-26-0049

Method:

Full QC Panel

Lot Number:

IWR-2607-RT10-A

Analysis Date:

2026-08-02

Labeled Content:

10 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

Blue

#0017A8

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Retatrutide	Confirmed
Purity (HPLC)	>= 98.0%	99.95%
Content (gross)	Report only	11.23 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.02 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0049
Access Code: CCUPJRUJ
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com |
summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Retatrutide — 10 mg

PASS

BATCH #

IWR-2607-RT10-B

PURITY

99.67%

MASS

12.06 mg

IDENTITY

Confirmed

COA #:

SBA-26-0050

Method:

Full QC Panel

Lot Number:

IWR-2607-RT10-B

Analysis Date:

2026-08-02

Labeled Content:

10 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



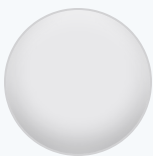
Purity



Endotoxins



Fentanyl Free



VIAL CAP

White

#E8E8EA

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Retatrutide	Confirmed
Purity (HPLC)	>= 98.0%	99.67%
Content (gross)	Report only	12.06 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.03 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0050
Access Code: RJM6R87F
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com |
summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Retatrutide — 15 mg

PASS

BATCH #

IWR-2607-RT15

PURITY

99.86%

MASS

16.31 mg

IDENTITY

Confirmed

COA #:

SBA-26-0051

Method:

Full QC Panel

Lot Number:

IWR-2607-RT15

Analysis Date:

2026-08-02

Labeled Content:

15 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

White

#E8E8EA

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Retatrutide	Confirmed
Purity (HPLC)	>= 98.0%	99.86%
Content (gross)	Report only	16.31 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.09 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0051
Access Code: KHJ2UWB6
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com | summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Retatrutide — 20 mg

PASS

BATCH #

IWR-2607-RT20-B

PURITY

99.42%

MASS

21.12 mg

IDENTITY

Confirmed

COA #:

SBA-26-0052

Method:

Full QC Panel

Lot Number:

IWR-2607-RT20-B

Analysis Date:

2026-08-02

Labeled Content:

20 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

Red

#B8232F

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Retatrutide	Confirmed
Purity (HPLC)	>= 98.0%	99.42%
Content (gross)	Report only	21.12 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.04 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0052
Access Code: ZHWCCFNS
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.



Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com |
summitbioanalytics.com

TESTED FOR

Iron Within Research

SAMPLE

Retatrutide — 30 mg

PASS

BATCH #

IWR-2607-RT30

PURITY

99.79%

MASS

31.76 mg

IDENTITY

Confirmed

COA #:

SBA-26-0053

Method:

Full QC Panel

Lot Number:

IWR-2607-RT30

Analysis Date:

2026-08-02

Labeled Content:

30 mg

Date Received:

2026-07-29

Appearance:

White lyophilized powder, intact seal



SCAN TO VERIFY



Identity



Purity



Endotoxins



Fentanyl Free



VIAL CAP

Blue

#0017A8

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	Retatrutide	Confirmed
Purity (HPLC)	>= 98.0%	99.79%
Content (gross)	Report only	31.76 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.08 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0053
Access Code: G6JXA7JY
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.

Lot Number: **IWR-5859103-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **06/29/2026**
 Analysis Conducted: **06/24/2026**
 Searchable via: **horizonanalytical.com**

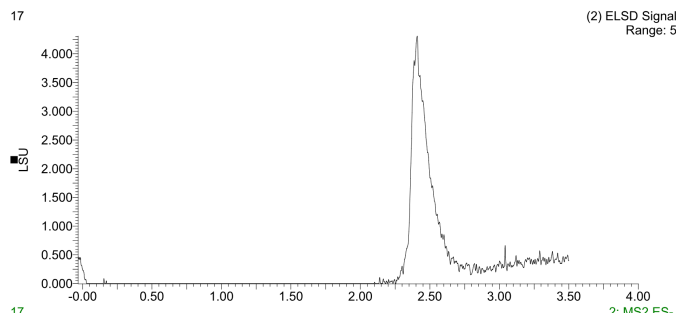
Compound:	Retatrutide
Lot:	IWR-5859103-P
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	10mg	9.84mg	
Purity:	>98%	99.56%	



UPLC



MS

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

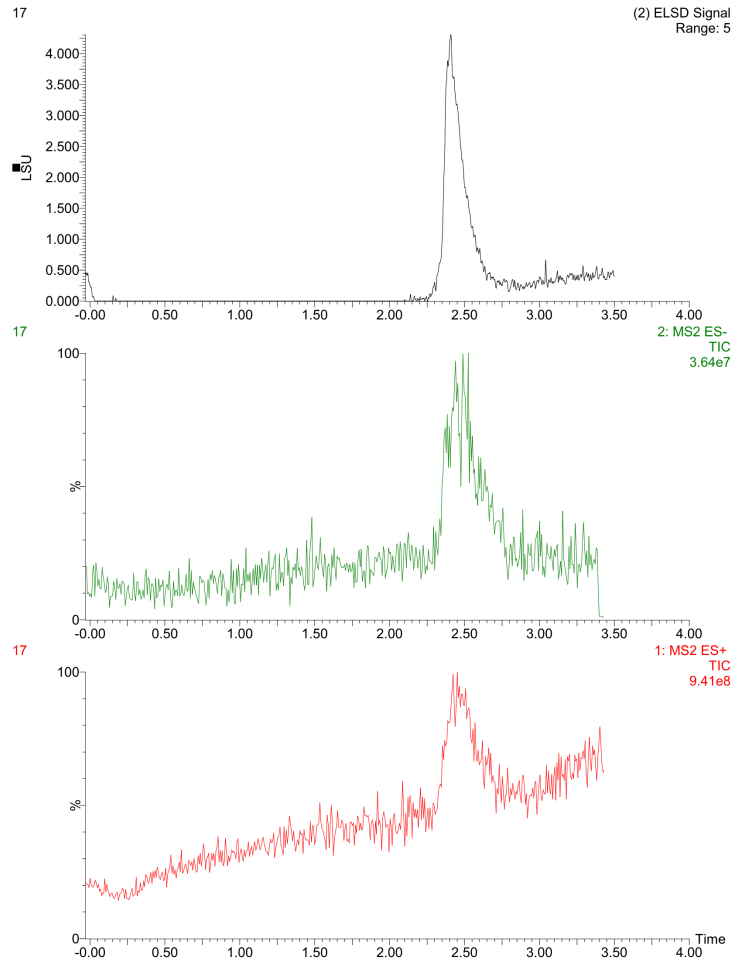


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

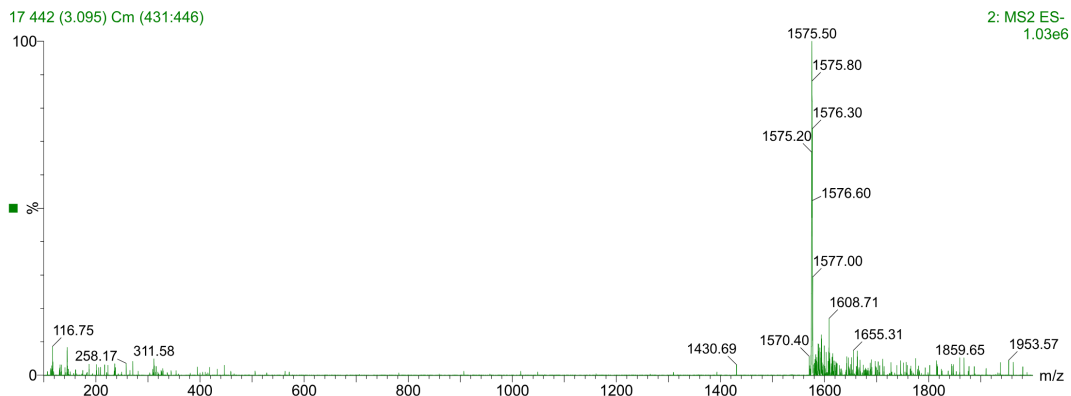
Lot Number: IWR-5859103-P
Client Name: Iron Within Research
Identity: www.ironwithinresearch.com

Received Date: 06/29/2026
Analysis Conducted: 06/24/2026
Searchable via: horizonanalytical.com

Retatrutide (10mg) • Pubchem CID: 171390338
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: [IWR-5859103-E](#)
Client Name: [Iron Within Research](#)
Identity: www.ironwithinresearch.com

Received Date: [06/29/2026](#)
Analysis Conducted: [06/24/2026](#)
Searchable via: horizonanalytical.com

Compound:	Retatrutide
Lot:	IWR-5859103-E
Appearance:	-

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

Endotoxin Test

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	-	
Endotoxin:	-	< 0.05 EU/mL	

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist



This endotoxin analysis was performed under standard laboratory conditions using validated testing methodologies to ensure accurate and reliable results. The analysis is intended for informational and research purposes only.

Contact at: contact@horizonanalytical.com

Proudly Owned and Operated in the USA 

Lot Number: **IWR-4862753-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **06/29/2026**
 Analysis Conducted: **06/24/2026**
 Searchable via: **horizonanalytical.com**

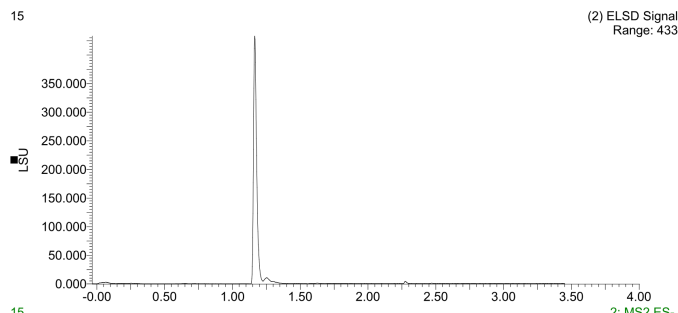
Compound:	Retatrutide
Lot:	IWR-4862753-P
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

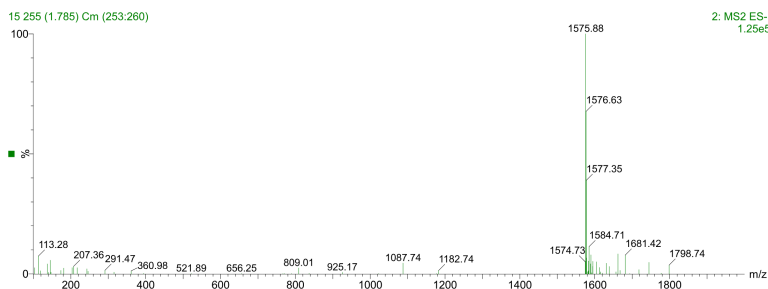
Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	30mg	28.9mg	
Purity:	>98%	99.32%	



UPLC



MS

Aleksey Yevtodiyenko PhD
 Research and Formulation Chemist

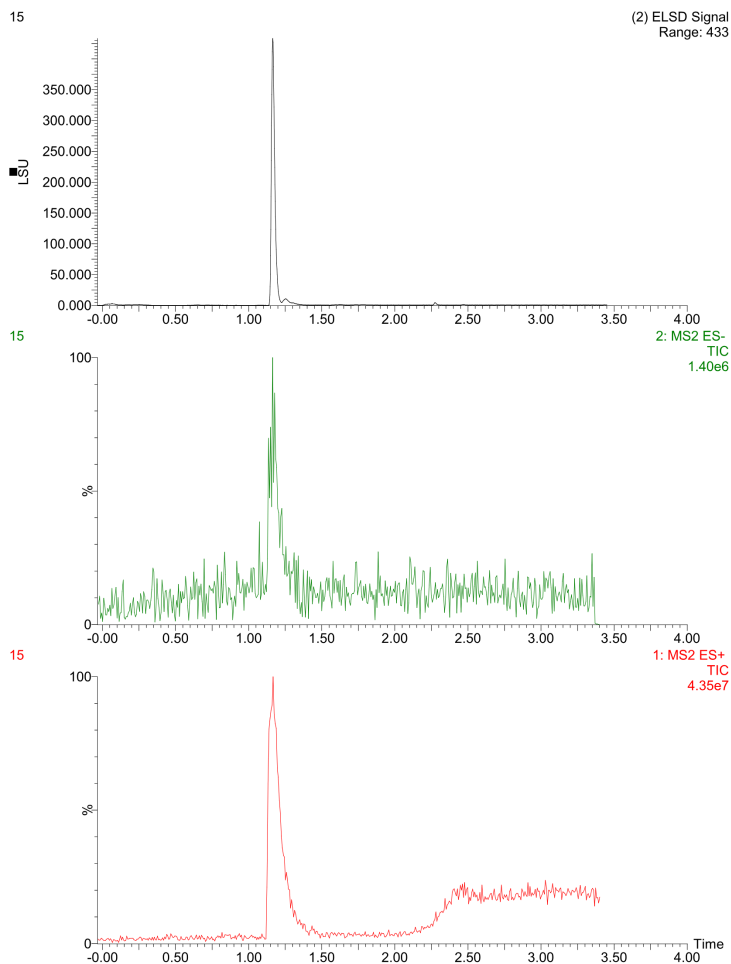


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

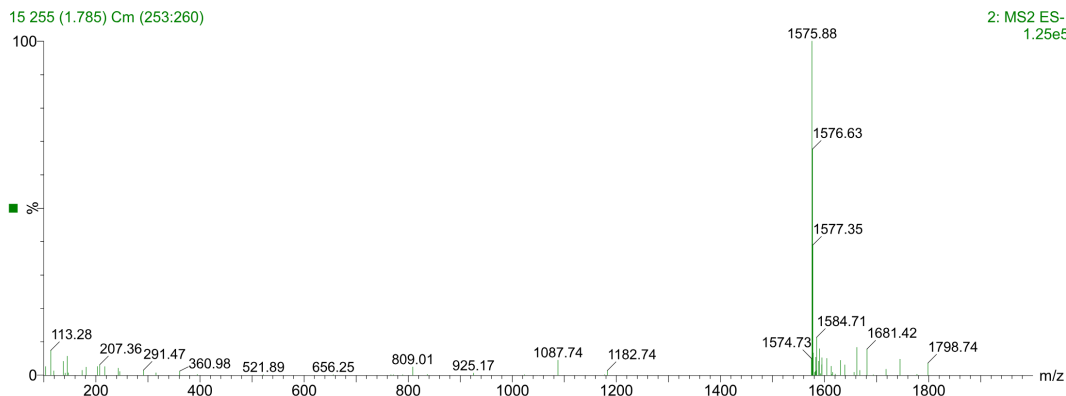
Lot Number: IWR-4862753-P
Client Name: Iron Within Research
Identity: www.ironwithinresearch.com

Received Date: 06/29/2026
Analysis Conducted: 06/24/2026
Searchable via: horizonanalytical.com

Retatrutide (30mg) • Pubchem CID: 171390338
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: [IWR-4862753-E](#)
Client Name: [Iron Within Research](#)
Identity: www.ironwithinresearch.com

Received Date: [06/29/2026](#)
Analysis Conducted: [06/24/2026](#)
Searchable via: horizonanalytical.com

Compound:	Retatrutide
Lot:	IWR-4862753-E
Appearance:	-

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

Endotoxin Test

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	-	
Endotoxin:	-	< 0.05 EU/mL	

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist



This endotoxin analysis was performed under standard laboratory conditions using validated testing methodologies to ensure accurate and reliable results. The analysis is intended for informational and research purposes only.

Contact at: contact@horizonanalytical.com

Proudly Owned and Operated in the USA 

Lot Number: **IWR-1764133-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **06/29/2026**
 Analysis Conducted: **06/24/2026**
 Searchable via: **horizonanalytical.com**

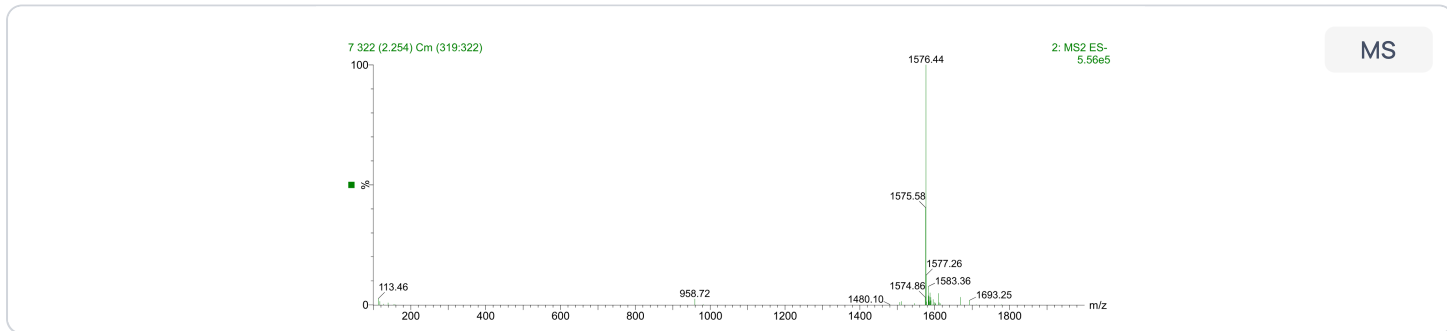
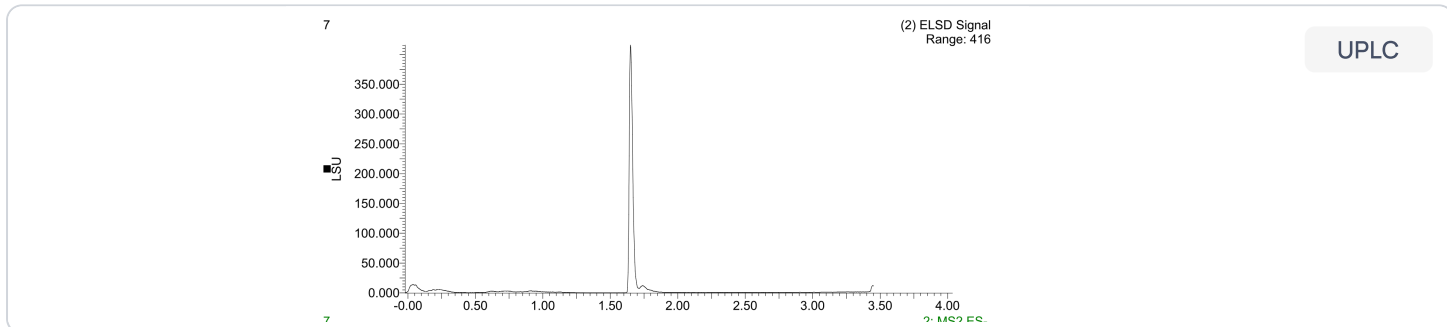
Compound:	Retatrutide
Lot:	IWR-1764133-P
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	15mg	15.05mg	
Purity:	>98%	99.44%	



Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

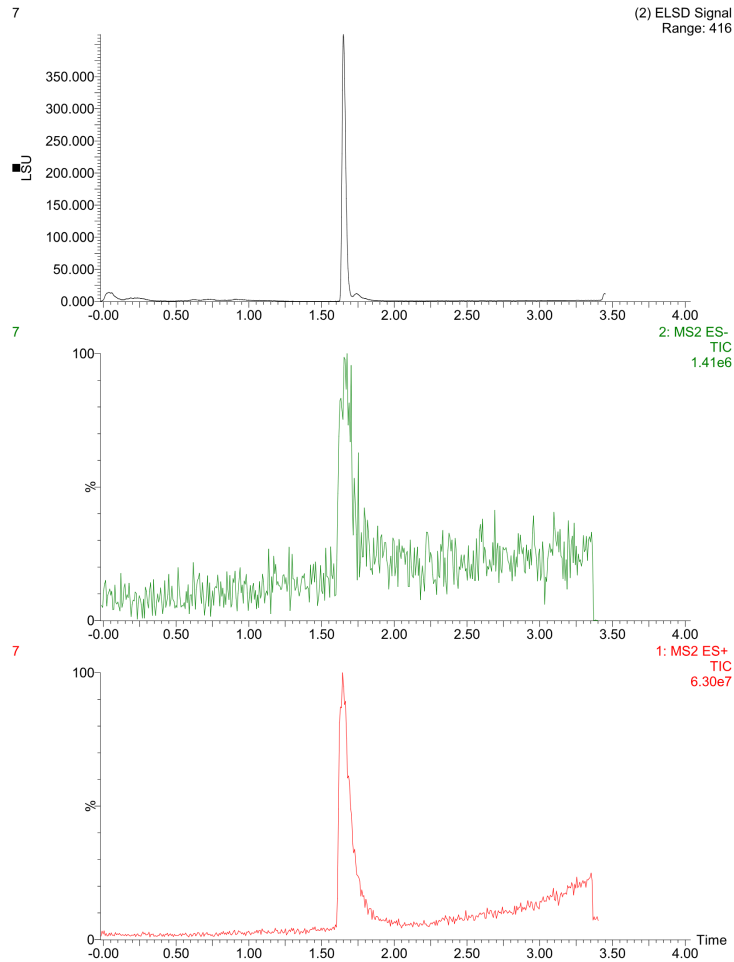


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

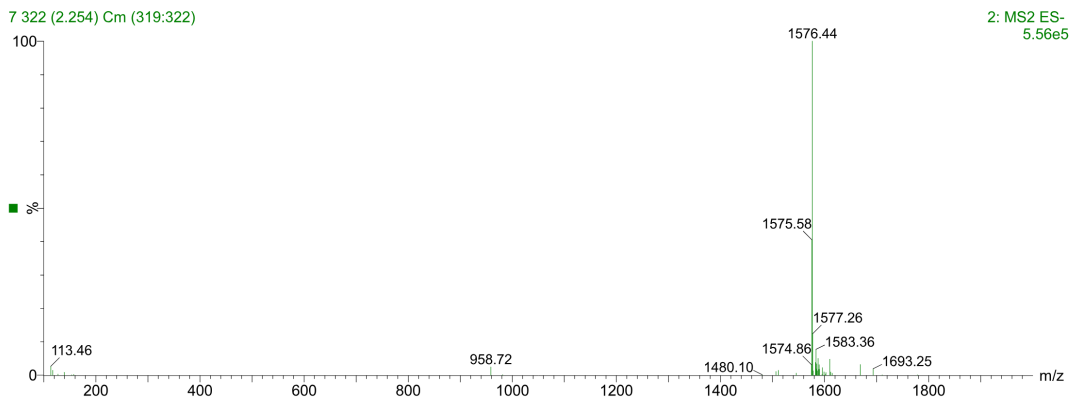
Lot Number: IWR-1764133-P
Client Name: Iron Within Research
Identity: www.ironwithinresearch.com

Received Date: 06/29/2026
Analysis Conducted: 06/24/2026
Searchable via: horizonanalytical.com

Retatrutide (15mg) • Pubchem CID: 171390338
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: IWR-1764133-E
Client Name: Iron Within Research
Identity: www.ironwithinresearch.com

Received Date: 06/29/2026
Analysis Conducted: 06/24/2026
Searchable via: horizonanalytical.com

Compound:	Retatrutide
Lot:	IWR-1764133-E
Appearance:	-

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

Endotoxin Test

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	-	
Endotoxin:	-	< 0.05 EU/mL	

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist



This endotoxin analysis was performed under standard laboratory conditions using validated testing methodologies to ensure accurate and reliable results. The analysis is intended for informational and research purposes only.

Contact at: contact@horizonanalytical.com

Proudly Owned and Operated in the USA 

Lot Number: **IWR-5564474-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **04/21/2026**
 Analysis Conducted: **04/16/2026**
 Searchable via: **horizonanalytical.com**

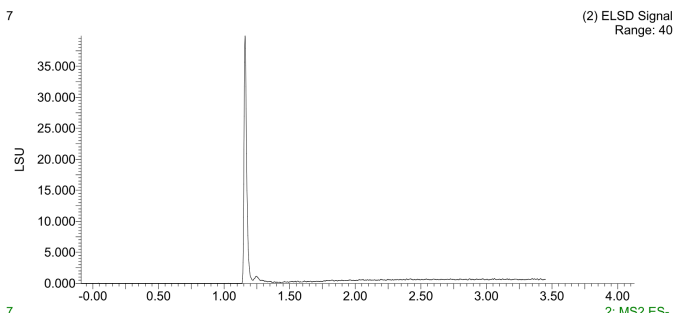
Compound:	Retatrutide
Lot:	IWR-5564474-P
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

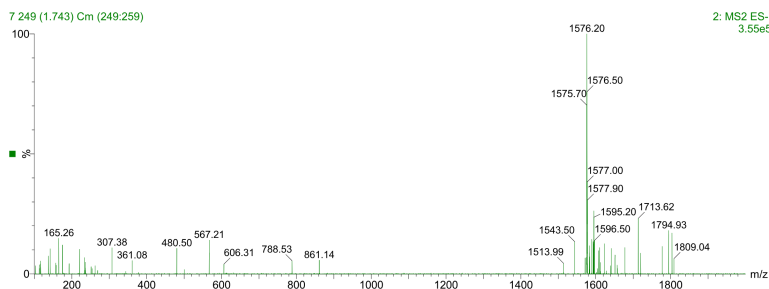
Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	15mg	15.11mg	
Purity:	>98%	99.32%	



UPLC



MS

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

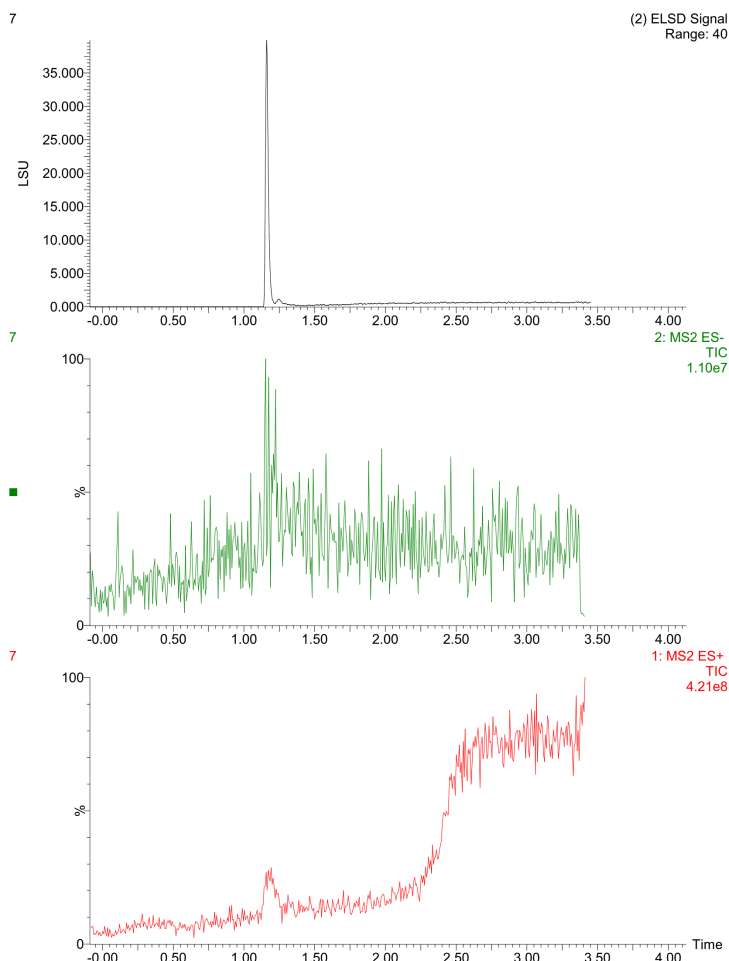


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

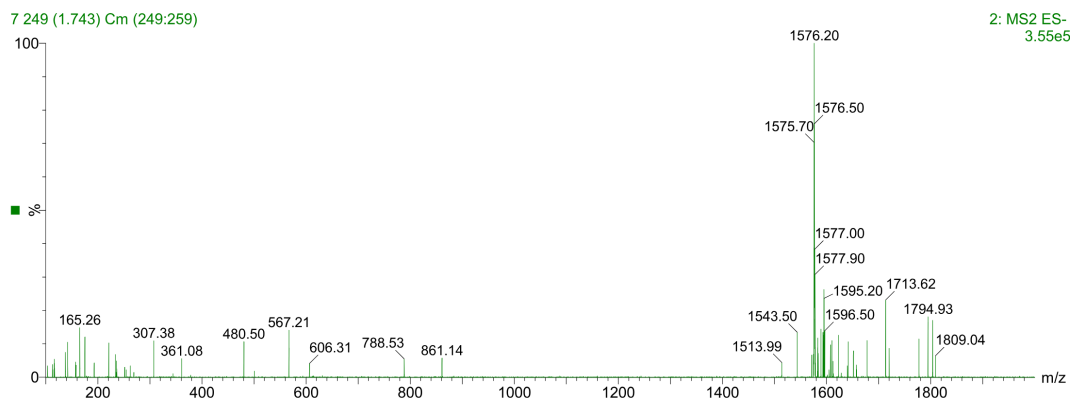
Lot Number: IWR-5564474-P
Client Name: Iron Within Research
Identity: www.ironwithinresearch.com

Received Date: 04/21/2026
Analysis Conducted: 04/16/2026
Searchable via: horizonanalytical.com

Retatrutide (15mg) • Pubchem CID: 171390338
Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: **IWR-8588568-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **04/21/2026**
 Analysis Conducted: **04/16/2026**
 Searchable via: **horizonanalytical.com**

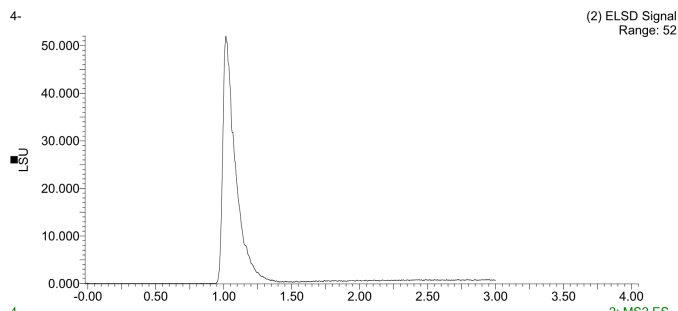
Compound:	Retatrutide
Lot:	IWR-8588568-P
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

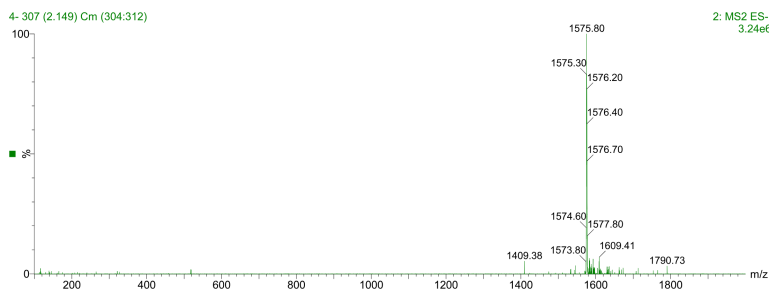
Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	30mg	29.5mg	
Purity:	>98%	99.4%	



UPLC



MS

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

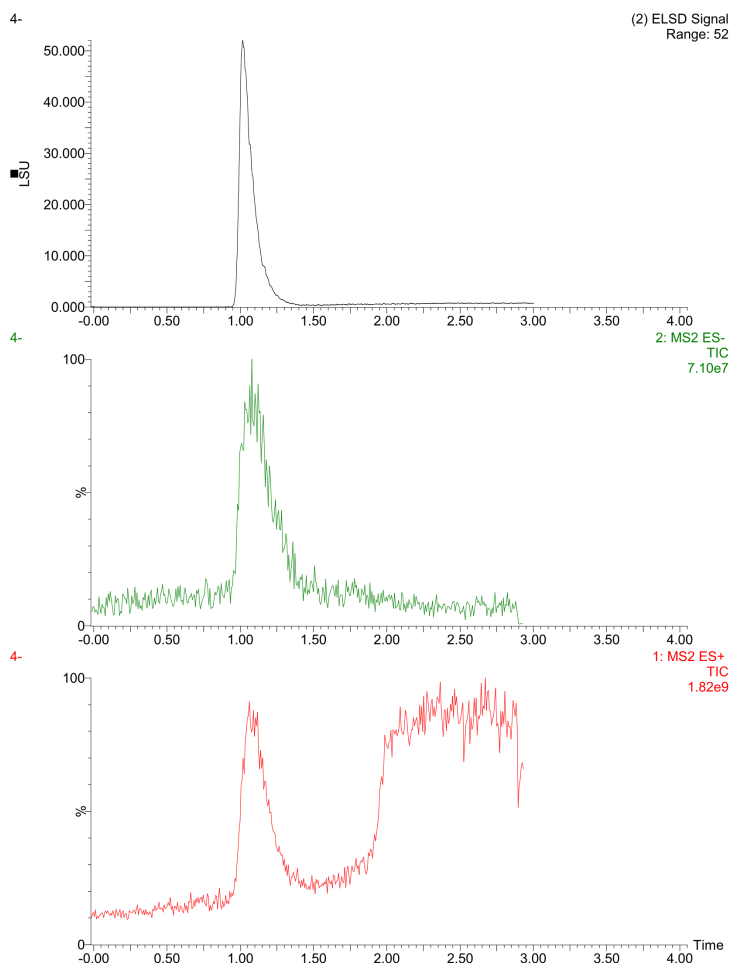


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

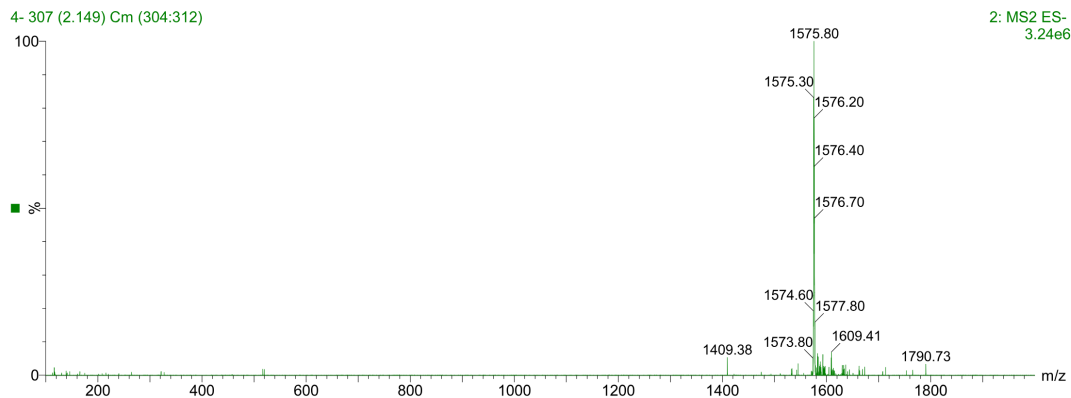
Lot Number: IWR-8588568-P
 Client Name: Iron Within Research
 Identity: www.ironwithinresearch.com

Received Date: 04/21/2026
 Analysis Conducted: 04/16/2026
 Searchable via: horizonanalytical.com

Retatrutide (30mg) • Pubchem CID: 171390338
 Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Lot Number: **IWR-9759917-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **04/21/2026**
 Analysis Conducted: **04/16/2026**
 Searchable via: **horizonanalytical.com**

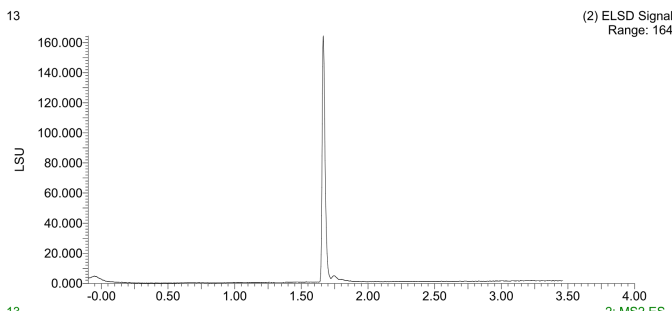
Compound:	Retatrutide
Lot:	IWR-9759917-P
Appearance:	White Lyophilized Powder

CAS:	2381089-83-2
Formula:	C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈
Mol Weight:	~4731 g/mol

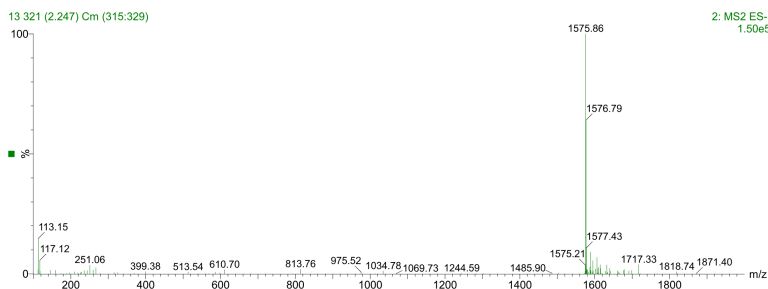
Pubchem CID: 171390338

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	Retatrutide	Retatrutide	
Quantity:	10mg	9.82mg	
Purity:	>98%	99.3%	



UPLC



MS

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

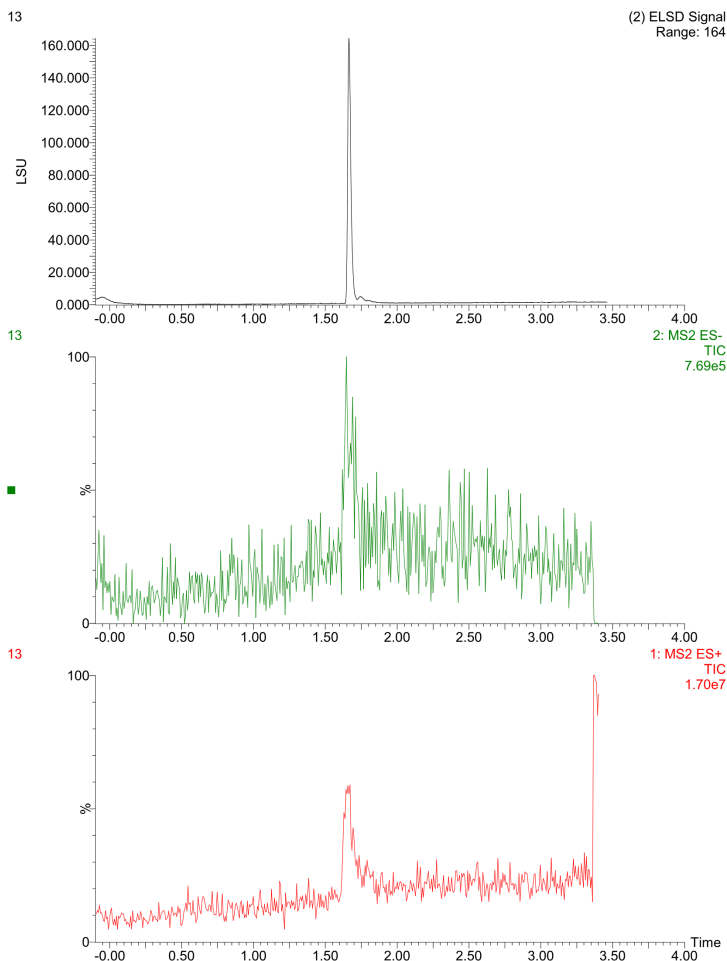


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

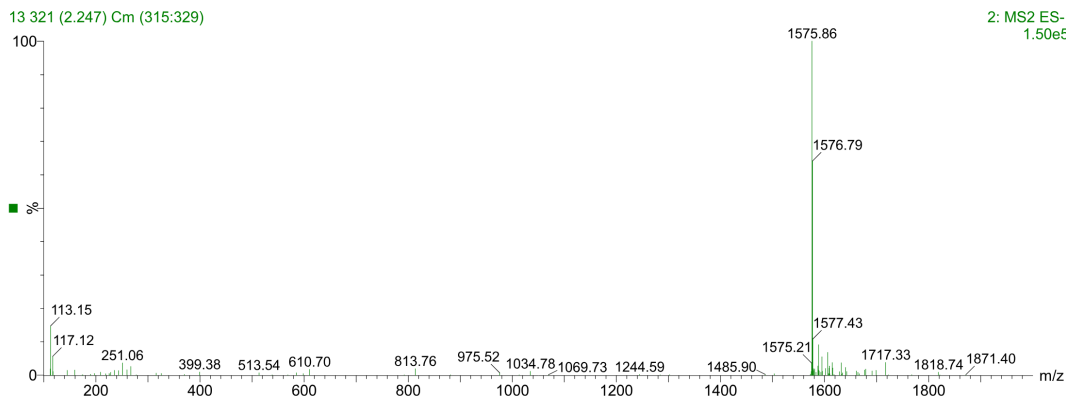
Lot Number: IWR-9759917-P
 Client Name: Iron Within Research
 Identity: www.ironwithinresearch.com

Received Date: 04/21/2026
 Analysis Conducted: 04/16/2026
 Searchable via: horizonanalytical.com

Retatrutide (10mg) • Pubchem CID: 171390338
 Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)





Proudly Owned and Operated in the USA

Searchable via: [FreedomDiagnosticsTesting.com](https://freedomdiagnostics.com/testing)

Product	Retatrutide 20mg
Net Peptide Content	22.14 mg
Identity	GLP RT

Certificate of Analysis

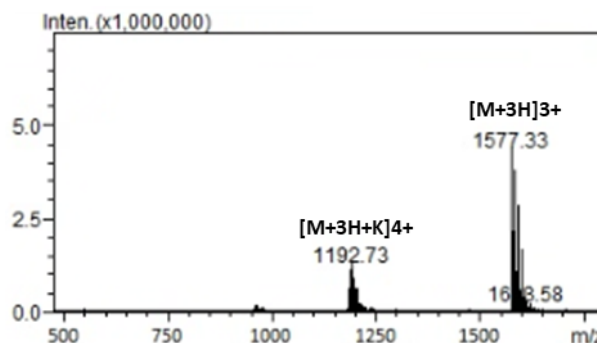
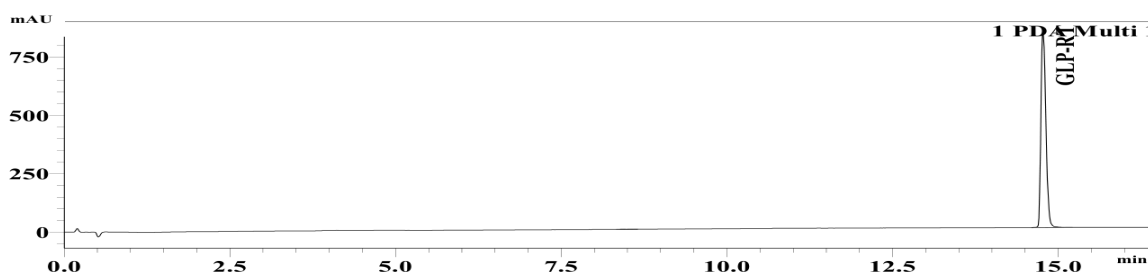
Accession Number	2602110106
Client	Iron Within Nutrition LLC
Search Code	Iron2602110106

Received Date:	02/11/2026
Reported Date:	2/12/2026

Lot	N/A
Purity	99.946%
Appearance	White Lyophilized Powder

All Chemical Analysis was performed by HPLC with UV Detection Coupled with Mass Spectrometry

Mass Identification	Result
GLP RT	99.946%



Stephen Schmidt

Stephen Schmidt
Principal Chemist

COA: 2602110106

The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.

Searchable via: [FreedomDiagnosticsTesting.com](https://freedomdiagnostics.com/testing)

Contact at: Admin@FreedomDiagnostics.net