Horizon Analytical

Certificate of Analysis

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

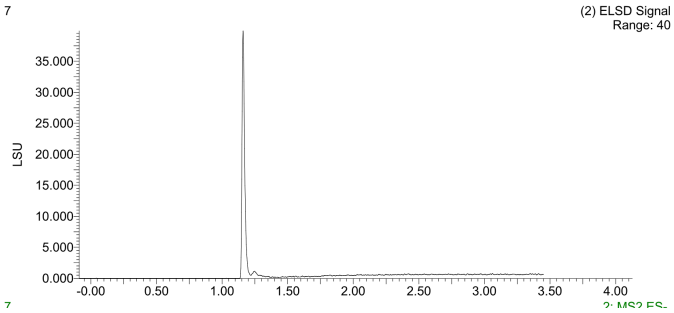
CAS:	2381089-83-2
Formula:	$C_{221}H_{342}N_{46}O_{68}$
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

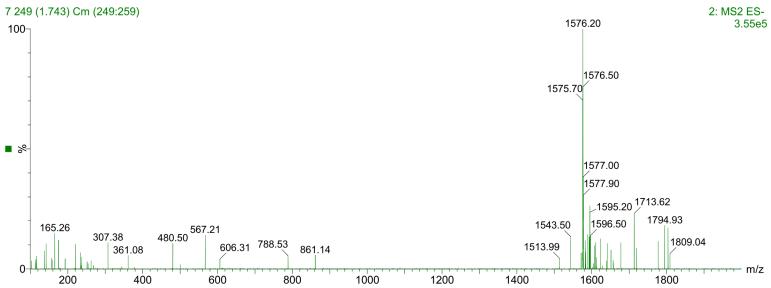
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	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.

Horizon Analytical

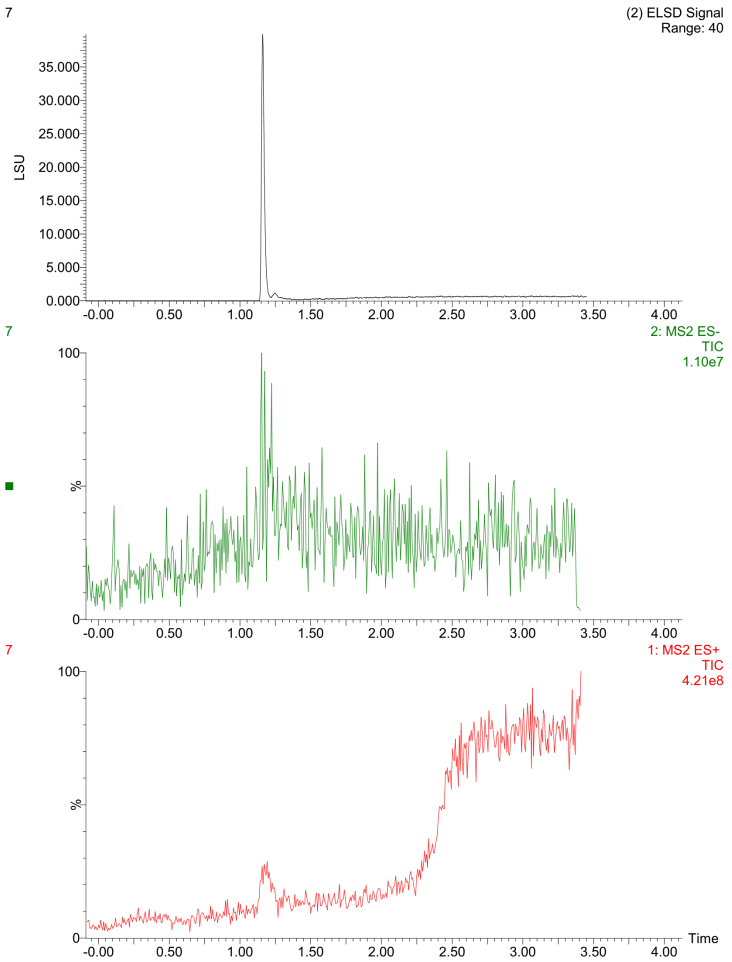
Certificate of Analysis

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

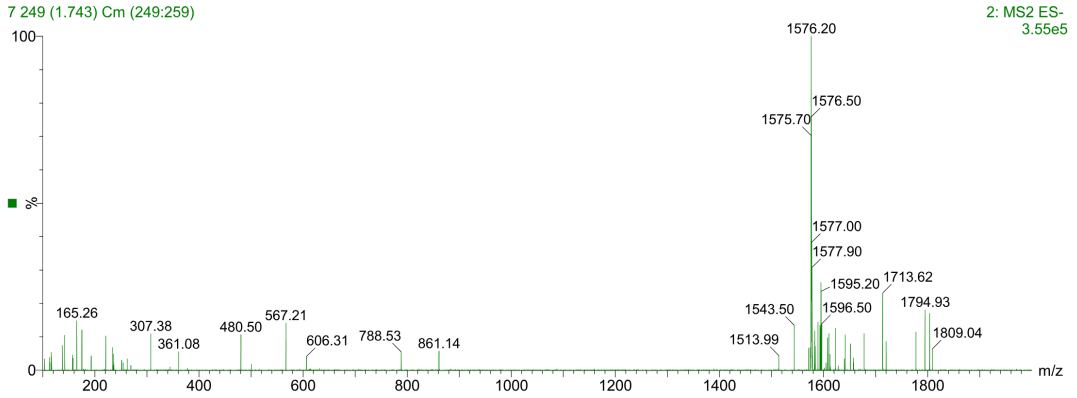
Received Date: 04/21/2026
Analysis Conducted: 04/16/2026
Searchable via: horizonanalytical.com

Retatrutide (15mg) • Pubchem CID: 171390338

Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Horizon Analytical

Certificate of Analysis

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

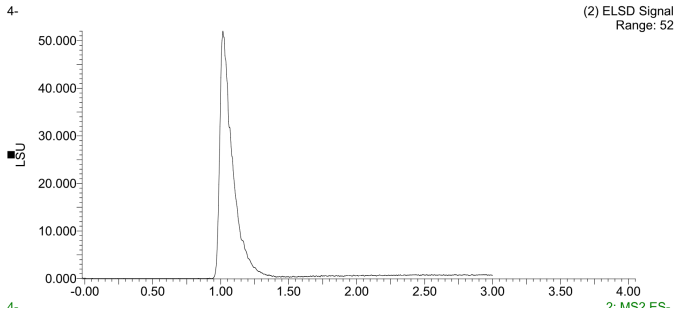
CAS:	2381089-83-2
Formula:	$C_{221}H_{342}N_{46}O_{68}$
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

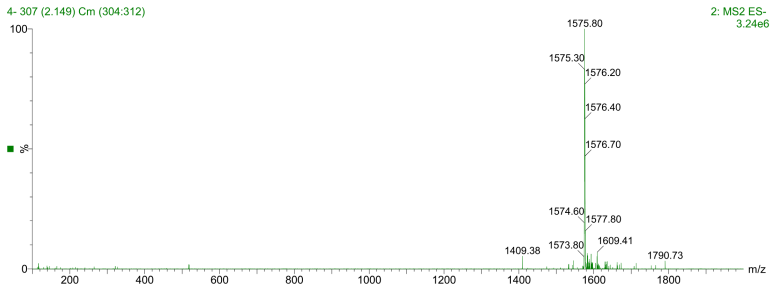
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	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

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Horizon Analytical

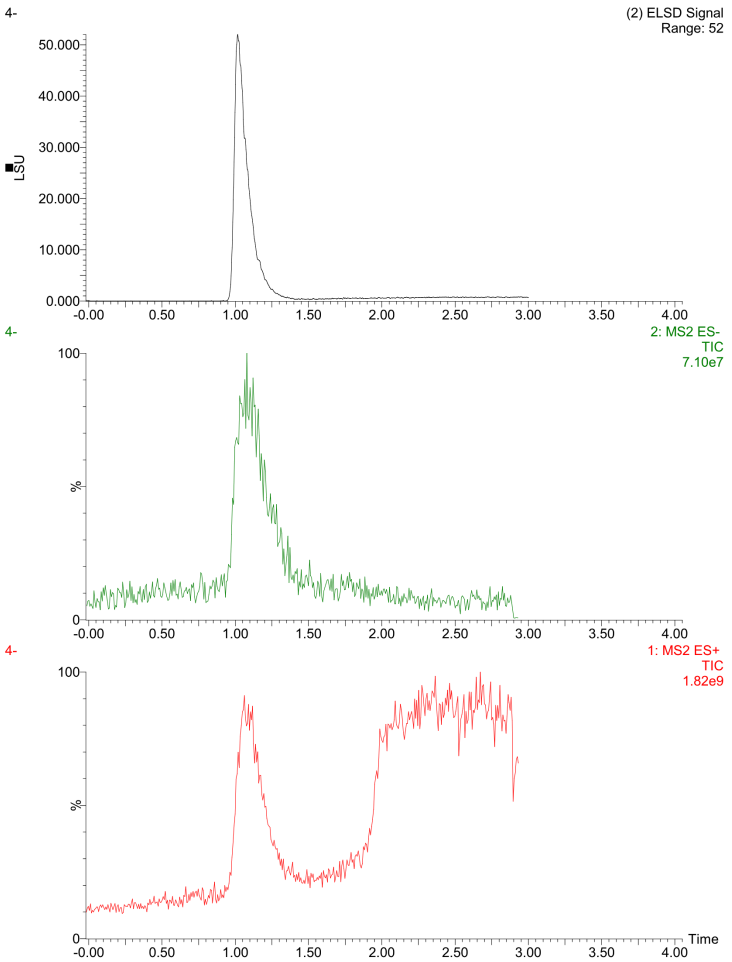
Certificate of Analysis

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

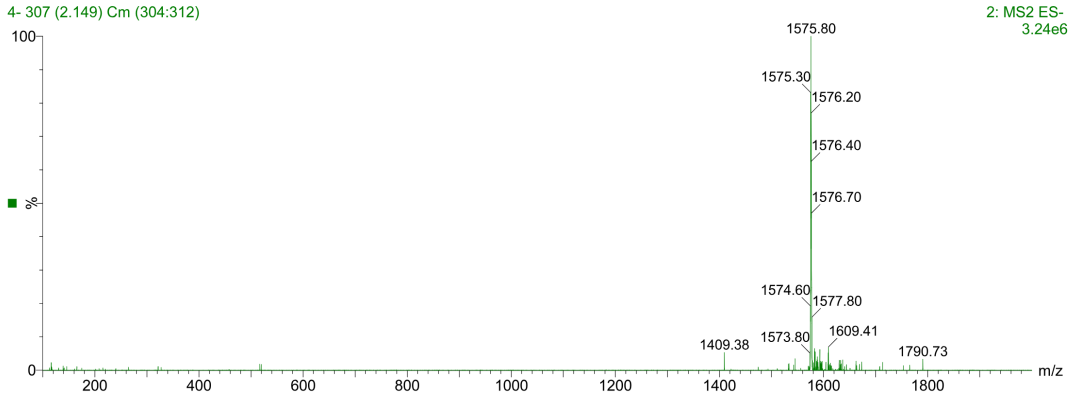
Received Date: 04/21/2026
Analysis Conducted: 04/16/2026
Searchable via: horizonanalytical.com

Retatrutide (30mg) • Pubchem CID: 171390338

Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)



Horizon Analytical

Certificate of Analysis

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

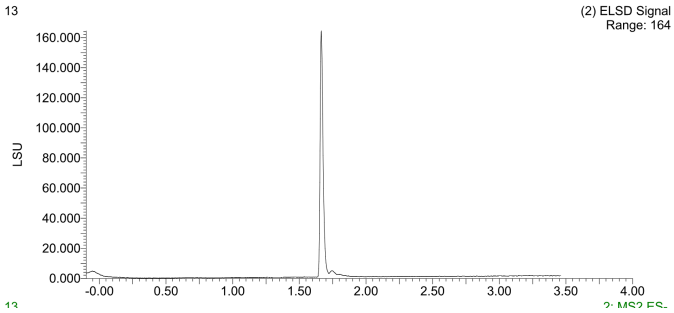
CAS:	2381089-83-2
Formula:	$C_{221}H_{342}N_{46}O_{68}$
Mol Weight:	~4731 g/mol

Pubchem CID: 171390338

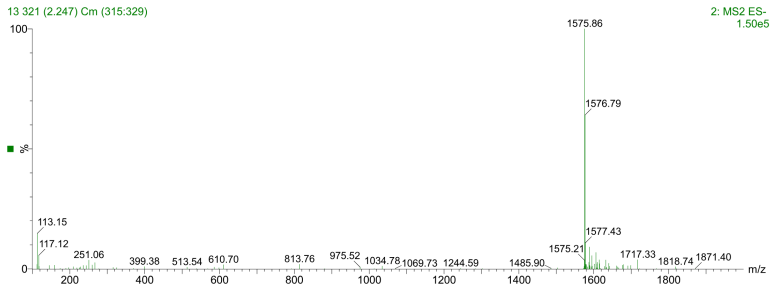
Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	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.

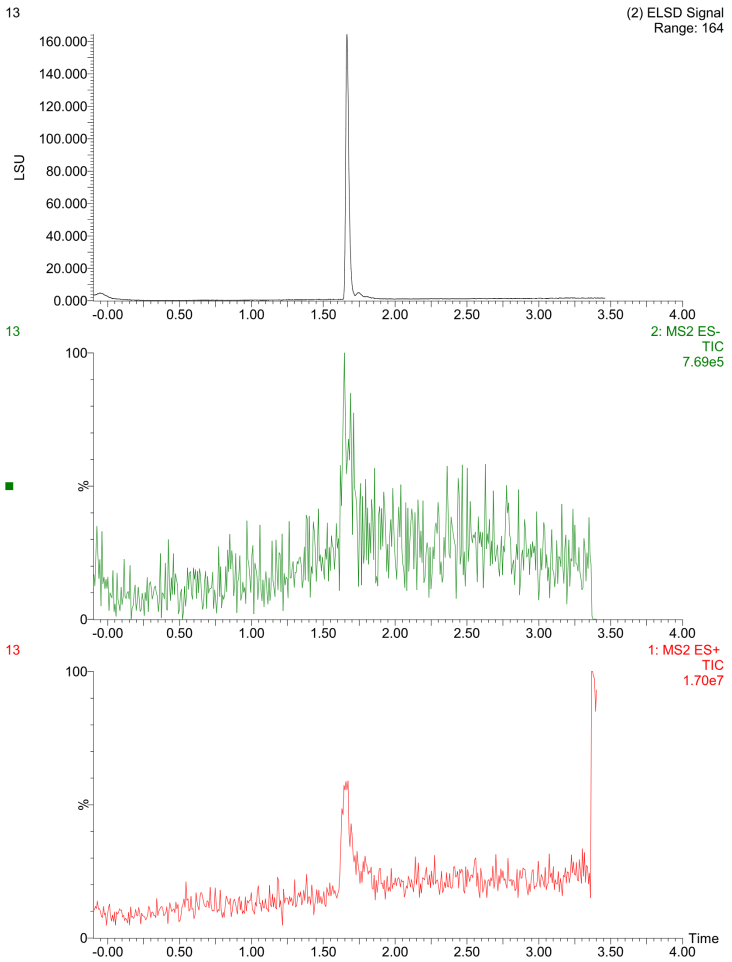
Horizon Analytical

Certificate of Analysis

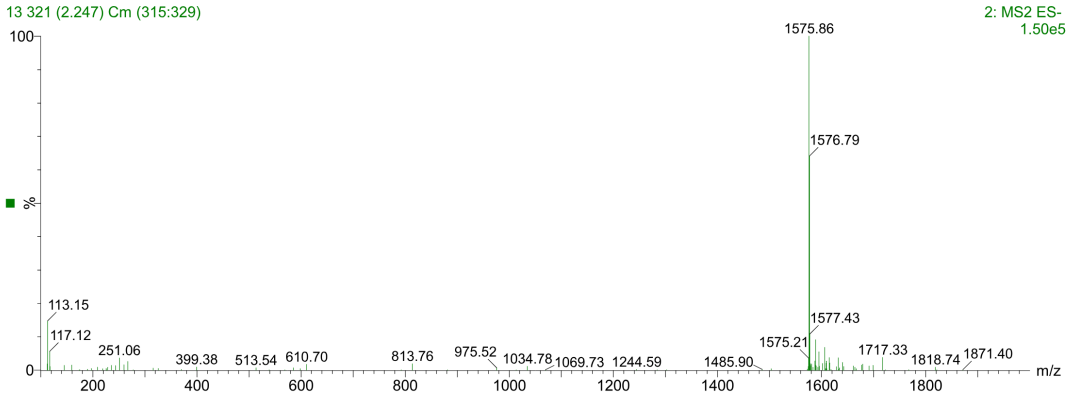
Lot Number: IWR-9759917-P
Client Name: Iron Within Research
Identity: www.ironwithinresearch.com

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)



Certificate of Analysis

Accession Number	2602110106
Client	Iron Within Nutrition LLC
Search Code	Iron2602110106

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

FREEDOM DIAGNOSTICS

Proudly Owned and Operated in the USA

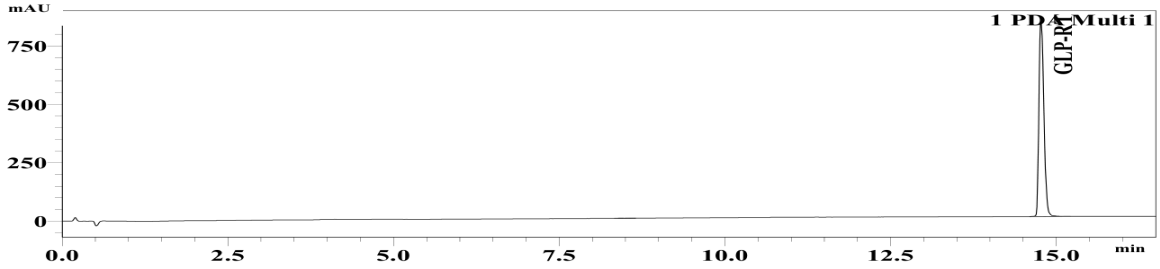
Searchable via: FreedomDiagnosticsTesting.com

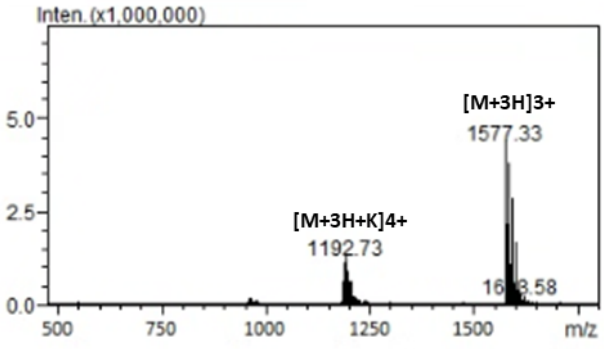
Product	Retatrutide 20mg
Net Peptide Content	22.14 mg
Identity	GLP RT

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.