



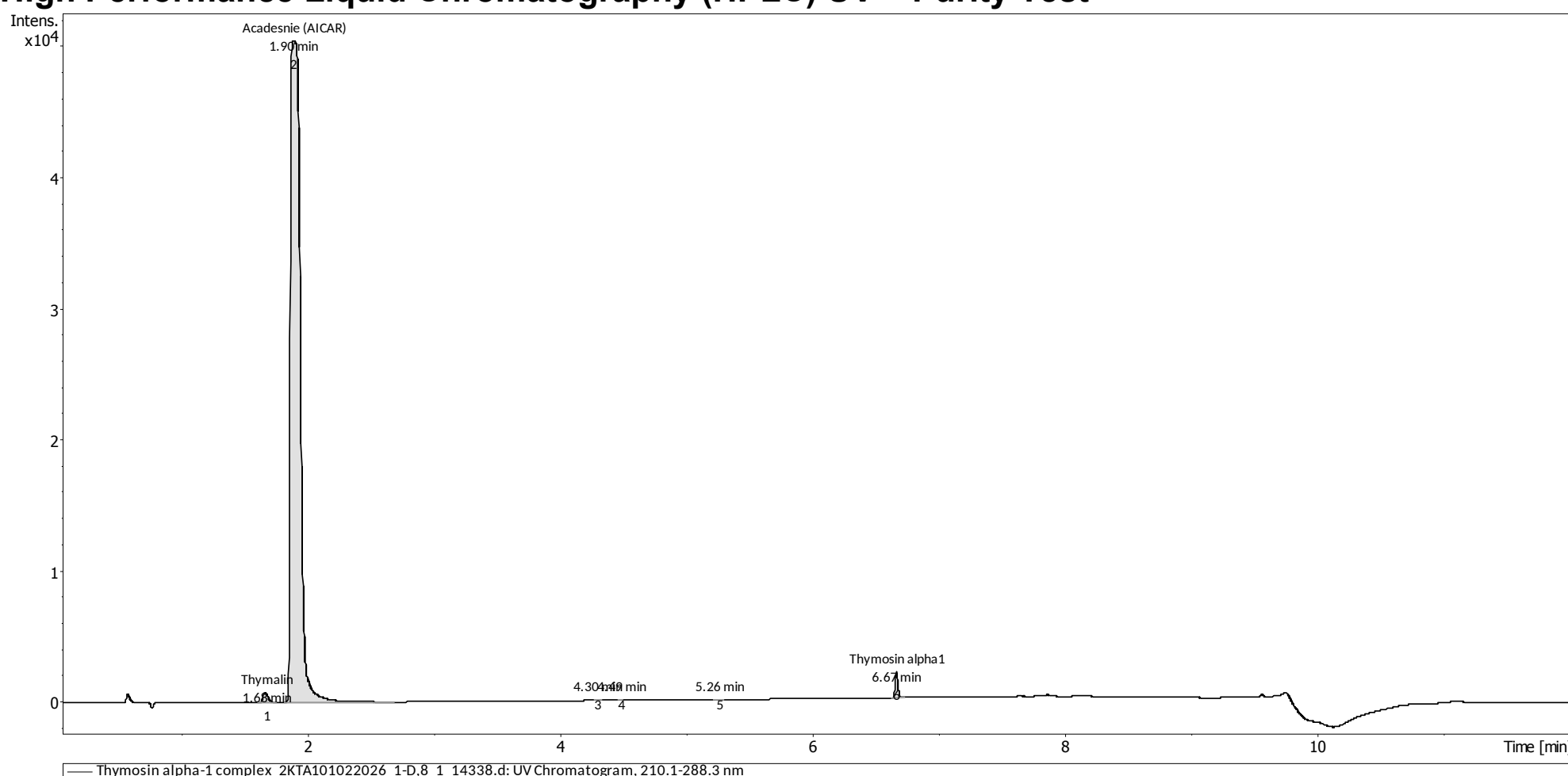
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Certificate of Analysis

Thymosin alpha-I, Thymalin, Acadesine (AICAR)

Compound : Thymosin α 1, Thymalin, AICAR **Client** : Clear Meds Corp
Lot number : 2KTA101022026
Analysis date : 2026-03-05
Purity % : 99.97%
Method : HPLC-UV-MS

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST		Number of detected peaks: 6		
	Time (min)	Area	%Area	
1	1.68	2.12E+03	0.76	Thymalin
2	1.90	2.75E+05	98.19	AICAR
3	4.30	3.86E+01	0.01	
4	4.49	1.58E+01	0.01	
5	5.26	2.04E+01	0.01	
6	6.67	2.87E+03	1.02	Thymosin alpha1

Overall Purity : 99.97

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
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2026-03-16

Note: Injectable peptides may contain salts and sugars to aid in solubility and act as pH buffers.
These are not normally detected using UV and are not considered impurities.

Thymosin alpha-I, Thymalin, Acadesine (AICAR)

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Thymosin alpha 1 PubChem CID: 16130571

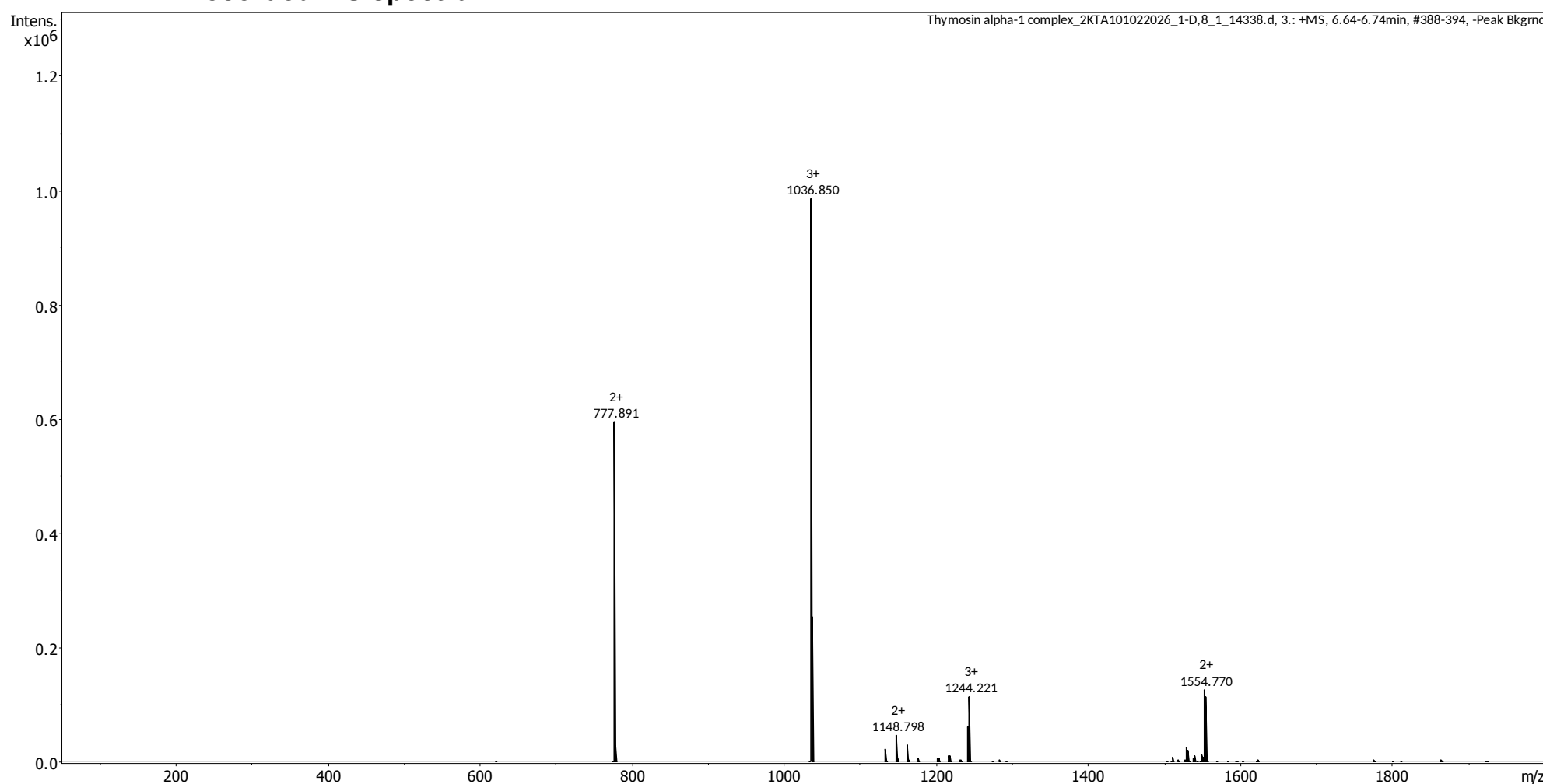
<https://pubchem.ncbi.nlm.nih.gov/compound/16130571>

Expected monoisotopic mass : 3106.50 Da

Measured monoisotopic mass : 3106.55 Da

Molecular weight confirmed

Recorded MS spectrum



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Thymosin alpha-I, Thymalin, Acadesine (AICAR)

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Thymalin PubChem CID: 3085284

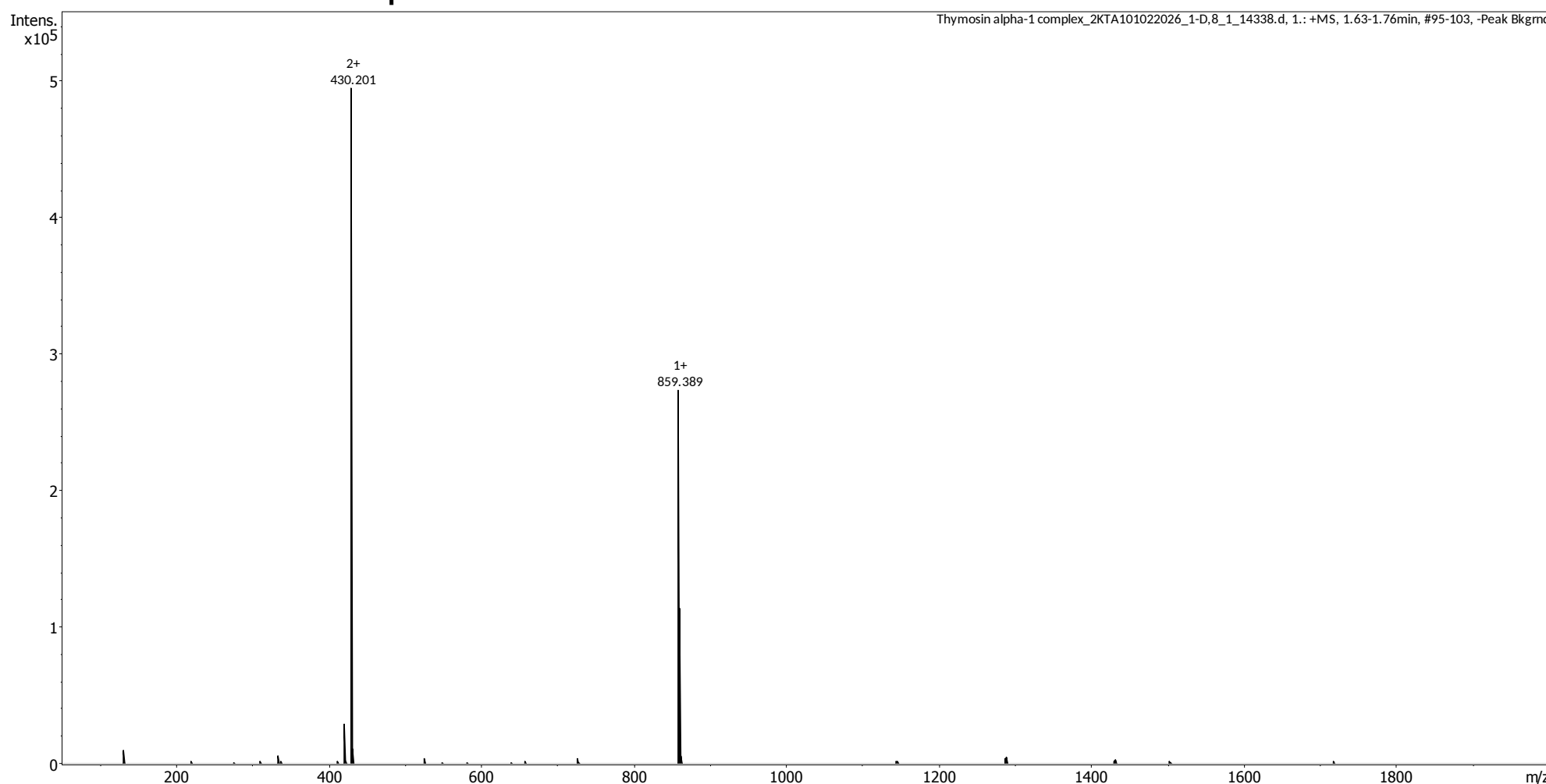
<https://pubchem.ncbi.nlm.nih.gov/compound/3085284>

Expected monoisotopic mass : 858.38 Da

Measured monoisotopic mass : 858.40 Da

Molecular weight confirmed

Recorded MS spectrum



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Thymosin alpha-I, Thymalin, Acadesine (AICAR)

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Acadesine (AICAR) PubChem CID: 17513

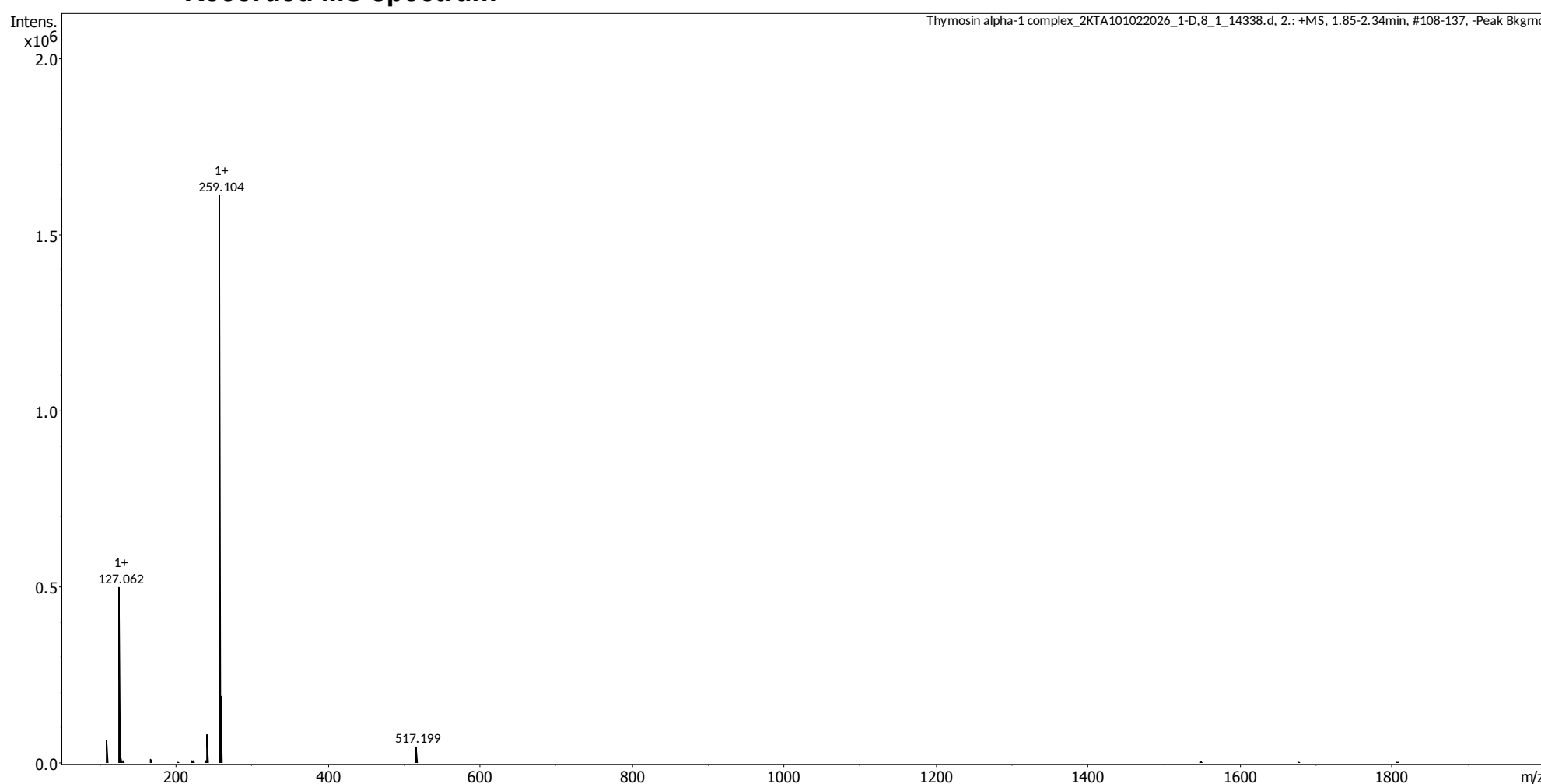
<https://pubchem.ncbi.nlm.nih.gov/compound/17513>

Expected monoisotopic mass : 258.10 Da

Measured monoisotopic mass : 258.10 Da

Molecular weight confirmed

Recorded MS spectrum



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