

Certificate of Analysis

Agomelatine

N-[2-(7-methoxynaphthalen-1-yl)ethyl]acetamide

Compound : Agomelatine
Lot number : 2024-07-30
Analysis date : 2024-08-19
Purity % : 99.87%
Method : HPLC-UV-MS

Client : Amino USA
www.aminousa.com

PubChem CID: 82148

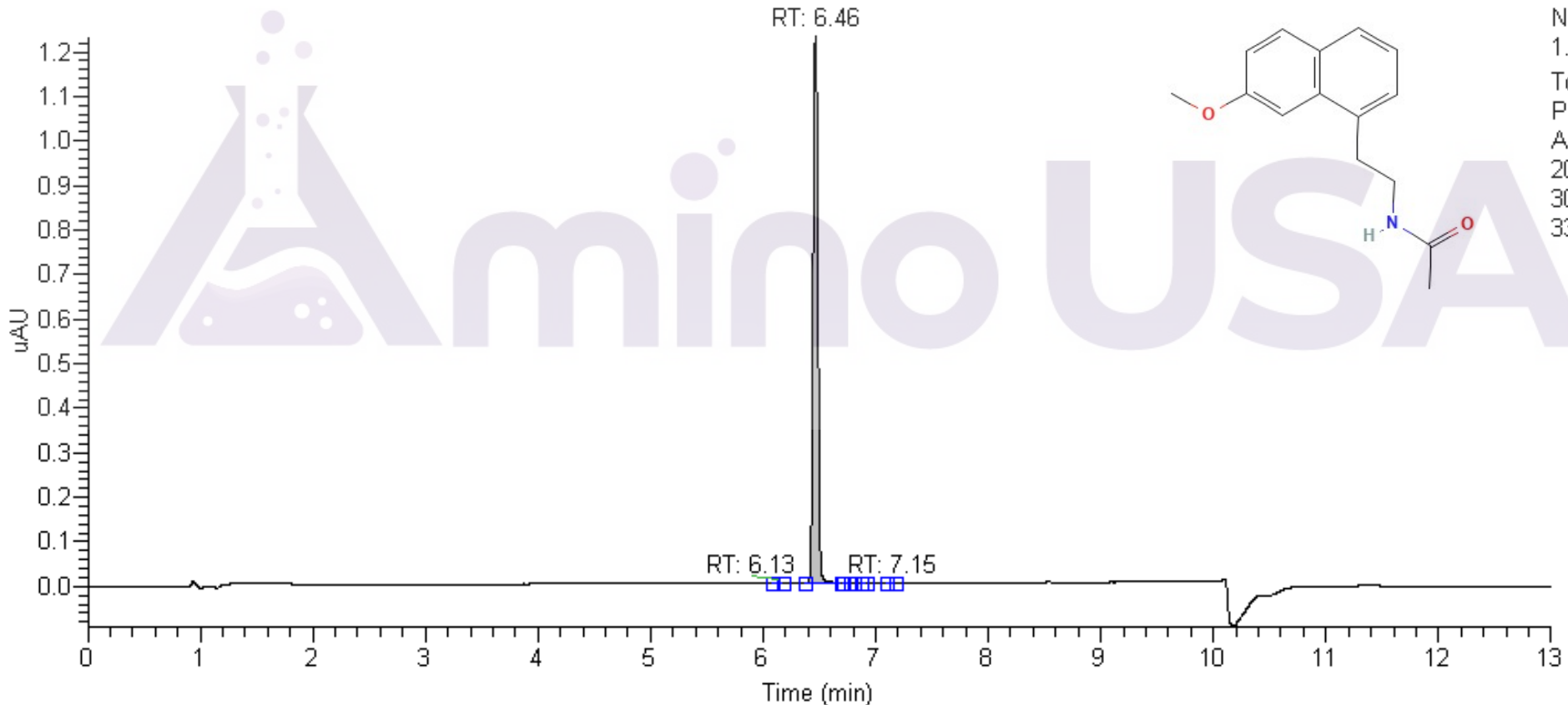
<https://pubchem.ncbi.nlm.nih.gov/compound/82148>

High Performance Liquid Chromatography (HPLC) UV – Purity Test

Agomelatine_2024-07-30_240819203357

8/19/2024 8:33:57 PM

RT: 0.00 - 13.00 SM: 3B



PEAK LIST			Number of detected peaks: 5	
	Time (min)	Area	%Area	
1	6.13	2.00E-03	0.04	
2	6.46	3.64E+00	99.87	Agomelatine
3	6.74	1.00E-03	0.02	
4	6.90	1.00E-03	0.04	
5	7.15	1.00E-03	0.03	

Analysis Performed by
Ken Pendarvis, ChE
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2024-08-20

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Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

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

Expected monoisotopic mass : 243.13 Da

Measured monoisotopic mass : 243.07 Da

Molecular weight confirmed

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

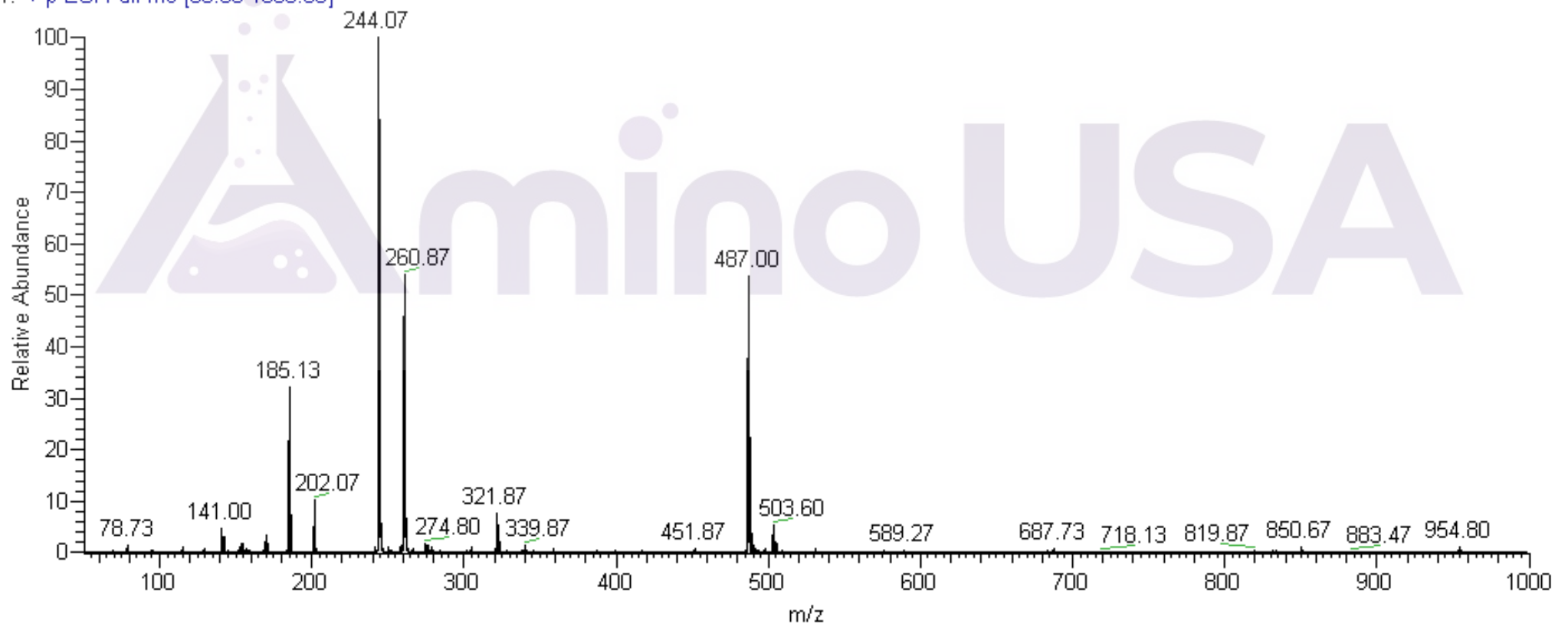
The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum

Agomelatine_2024-07-30_240819203357

8/19/2024 8:33:57 PM

Agomelatine_2024-07-30_240819203357 #424 RT: 6.57 AV: 1 NL: 4.49E8
T: + p ESI Full ms [50.00-1000.00]



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