

# Certificate of Analysis

## Humanin

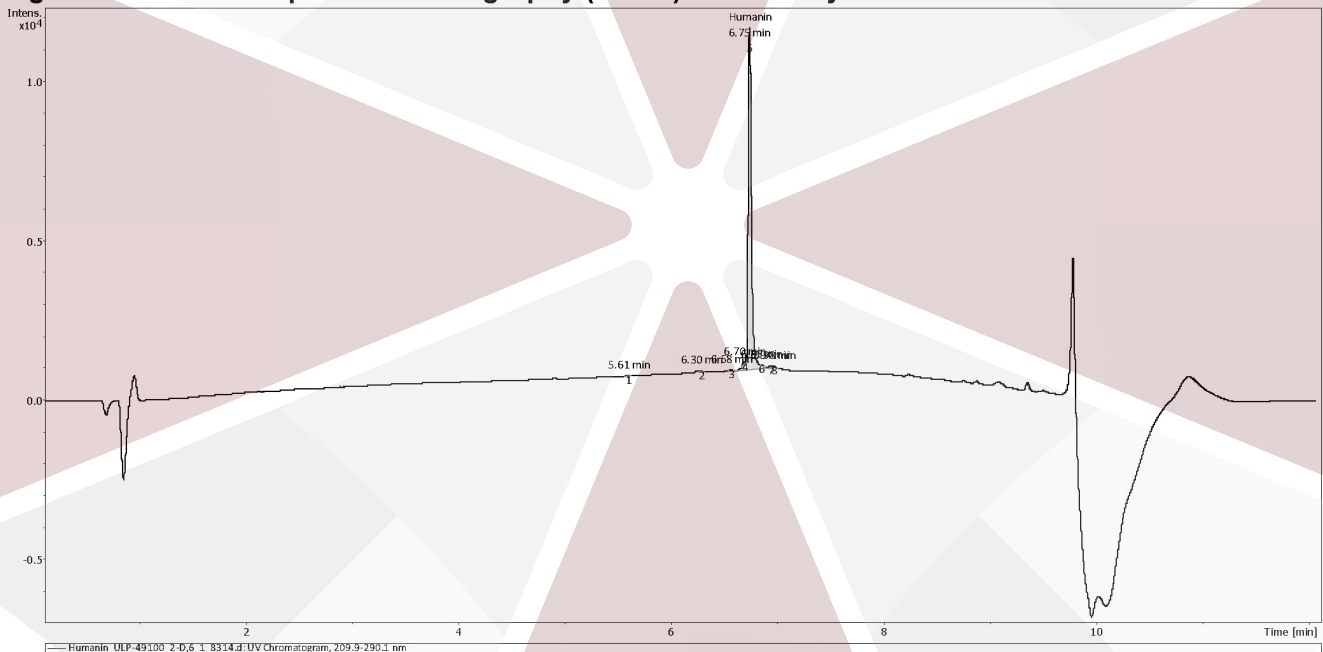
**Compound** : Humanin  
**Lot number** : ULP-49100  
**Analysis date** : 2025-01-15  
**Purity %** : 98.00%  
**Method** : HPLC-UV-MS

**Client** : UMBRELLA.us  
**3280 E Hemisphere Loop**  
**Tucson, Arizona 85706**

PubChem CID: 16131438

<https://pubchem.ncbi.nlm.nih.gov/compound/16131438>

### High Performance Liquid Chromatography (HPLC) UV – Purity Test



Humanin\_ ULP-49100\_2-D\_5\_1\_8314.d:UV Chromatogram, 209.9-290.1 nm

PEAK LIST		Number of detected peaks: 8		
	Time (min)	Area	%Area	
1	5.61	5.67E+01	0.23	
2	6.30	4.36E+01	0.17	
3	6.58	8.45E+01	0.34	
4	6.70	1.11E+02	0.45	
5	<b>6.75</b>	<b>2.43E+04</b>	<b>98.00</b>	<b>Humanin</b>
6	6.85	4.90E+01	0.20	
7	6.94	1.10E+02	0.44	
8	6.98	1.86E+02	0.74	

Analysis Performed by  
 Ken Pendarvis, ChE  
 Analytical Chemist  
 MZ Biolabs  
[contact@mzbiolabs.com](mailto:contact@mzbiolabs.com)



2025-01-23

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.

# Humanin

PubChem CID: 16131438

<https://pubchem.ncbi.nlm.nih.gov/compound/16131438>

## Mass Spectrometry (MS) – Identity Test

### Identity confirmed using HPLC-MS

Molecular weight calculated using base peak m/z values from mass spectrum

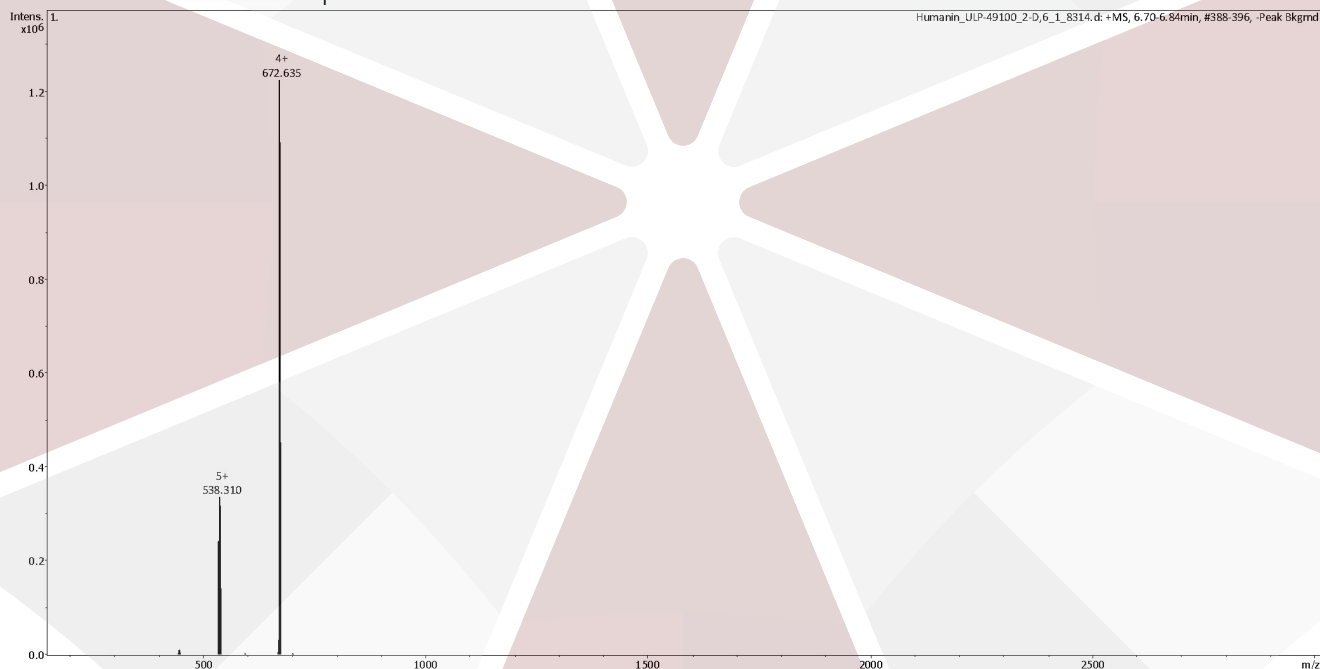
Expected average mass : 2685.48 Da

Measured base peak mass : 2685.54 Da

**Molecular weight confirmed**

Note : 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



Analysis Performed by  
Ken Pendarvis, ChE  
Analytical Chemist  
MZ Biolabs  
[contact@mzbiolabs.com](mailto:contact@mzbiolabs.com)



2025-01-23