

# Certificate of Analysis

## Tesofensine 250 mcg

(5R)-5-(piperidine-1-carbonyl)pyrrolidin-2-one

**Compound** : Tesofensine  
**Lot number** : 24120  
**Analysis date** : 2024-05-21  
**Quantity** : 251.1 mcg/tablet  
**Method** : HPLC-UV-MS

**Client** : BioPep Research Peptides

PubChem CID: 11370864

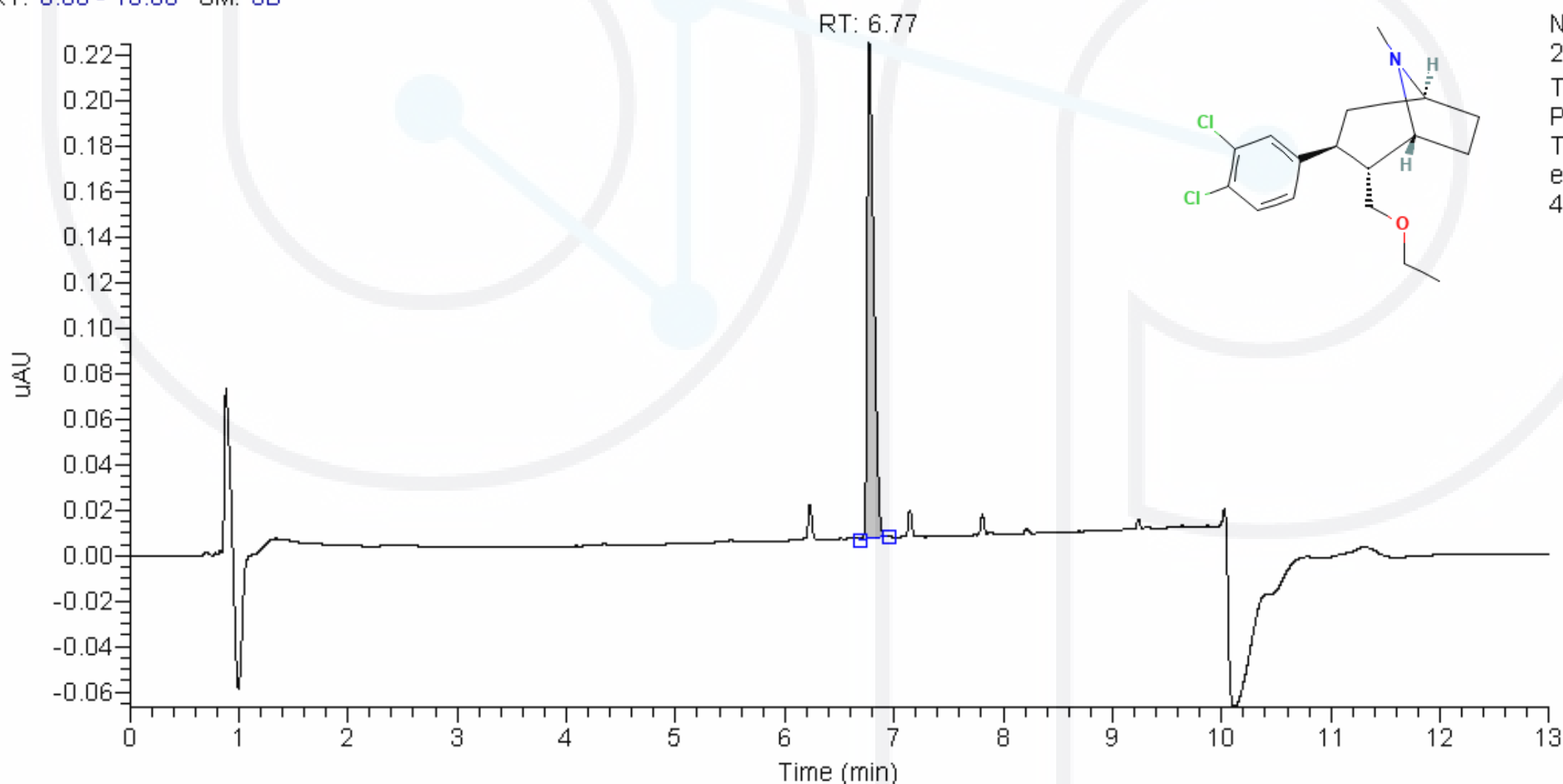
<https://pubchem.ncbi.nlm.nih.gov/compound/11370864>

### High Performance Liquid Chromatography (HPLC) UV

Tesofensine\_250\_2024-04-29\_r1

5/21/2024 12:39:40 PM

RT: 0.00 - 13.00 SM: 3B



**Tesofensine detected at 6.77 minutes**

Background peaks due to tablet filler

#### Quantification by HPLC-UV

| Replicates                    | mcg/tablet   |
|-------------------------------|--------------|
| Tesofensine_250_2024-04-29_r1 | 246.0        |
| Tesofensine_250_2024-04-29_r2 | 234.9        |
| Tesofensine_250_2024-04-29_r3 | 272.5        |
| <b>Average mcg/tablet</b>     | <b>251.1</b> |

Analysis Performed by  
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Analytical Chemist  
MZ Biolabs  
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2024-05-22

# Tesofensine 250 mcg

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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 : 327.12 Da

Measured monoisotopic mass : 327.20 Da

**Molecular weight confirmed**

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

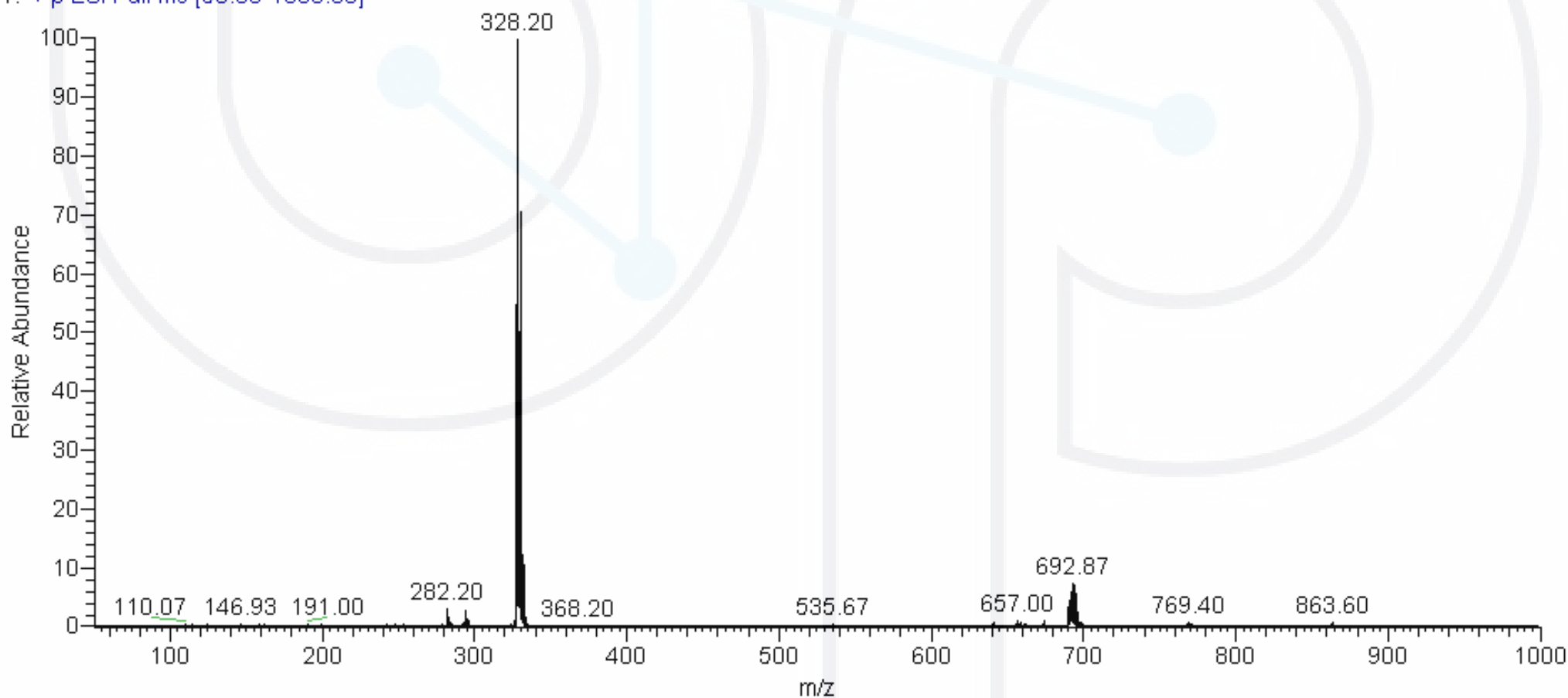
The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

### Recorded MS spectrum

Tesofensine\_250\_2024-04-29\_r1

5/21/2024 12:39:40 PM

Tesofensine\_250\_2024-04-29\_r1 #438 RT: 6.84 AV: 1 NL: 5.32E8  
T: + p ESI Full ms [50.00-1000.00]



Analysis Performed by  
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2024-05-22