

Certificate of Analysis

MK-677 (Ibutamoren) capsules

2-amino-2-methyl-N-[(2R)-1-(1-methylsulfonylspiro[2H-indole-3,4'-piperidine]-1'-yl)-1-oxo-3-phenylmethoxypropan-2-yl]propanamide;methanesulfonic acid

Compound : MK-677

Client : Newtropin

Lot number : 664281

Analysis date : 2025-03-14

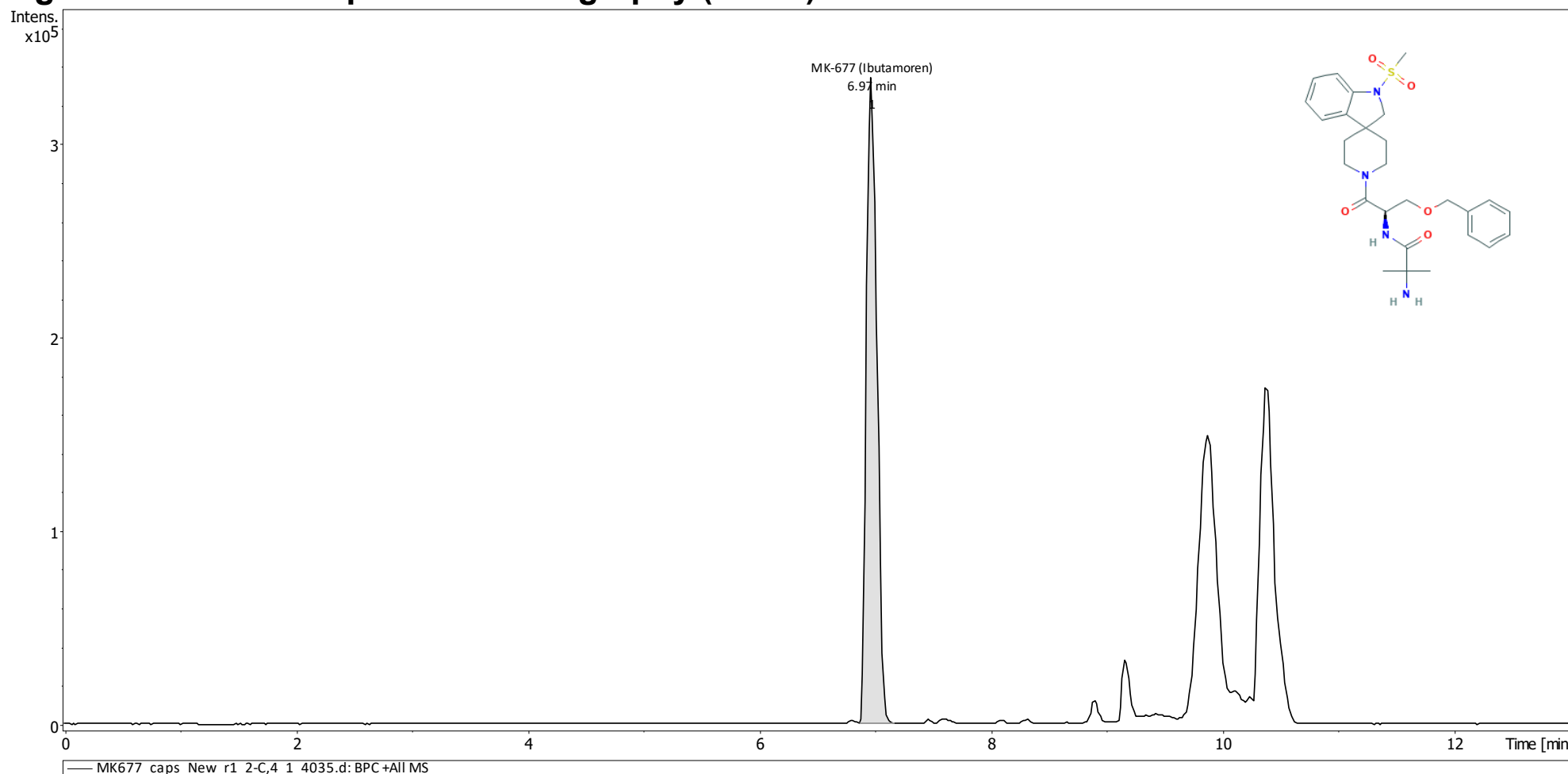
Quantity : 23.1 mg/capsule

Method : HPLC-UV-MS

PubChem CID: 178024

<https://pubchem.ncbi.nlm.nih.gov/compound/178024>

High Performance Liquid Chromatography (HPLC) MS



MK-677 detected at 6.97 minutes

Background peaks due to capsule filler

Quantification by HPLC-UV

Replicates	mg/capsule
MK677_caps_2025-03-03_r1	23.01
MK677_caps_2025-03-03_r2	21.94
MK677_caps_2025-03-03_r3	24.34
Average mg/capsule	23.10

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
contact@mzbiolabs.com



2025-03-17

MK-677 (Ibutamoren) capsules

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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 : 528.24 Da

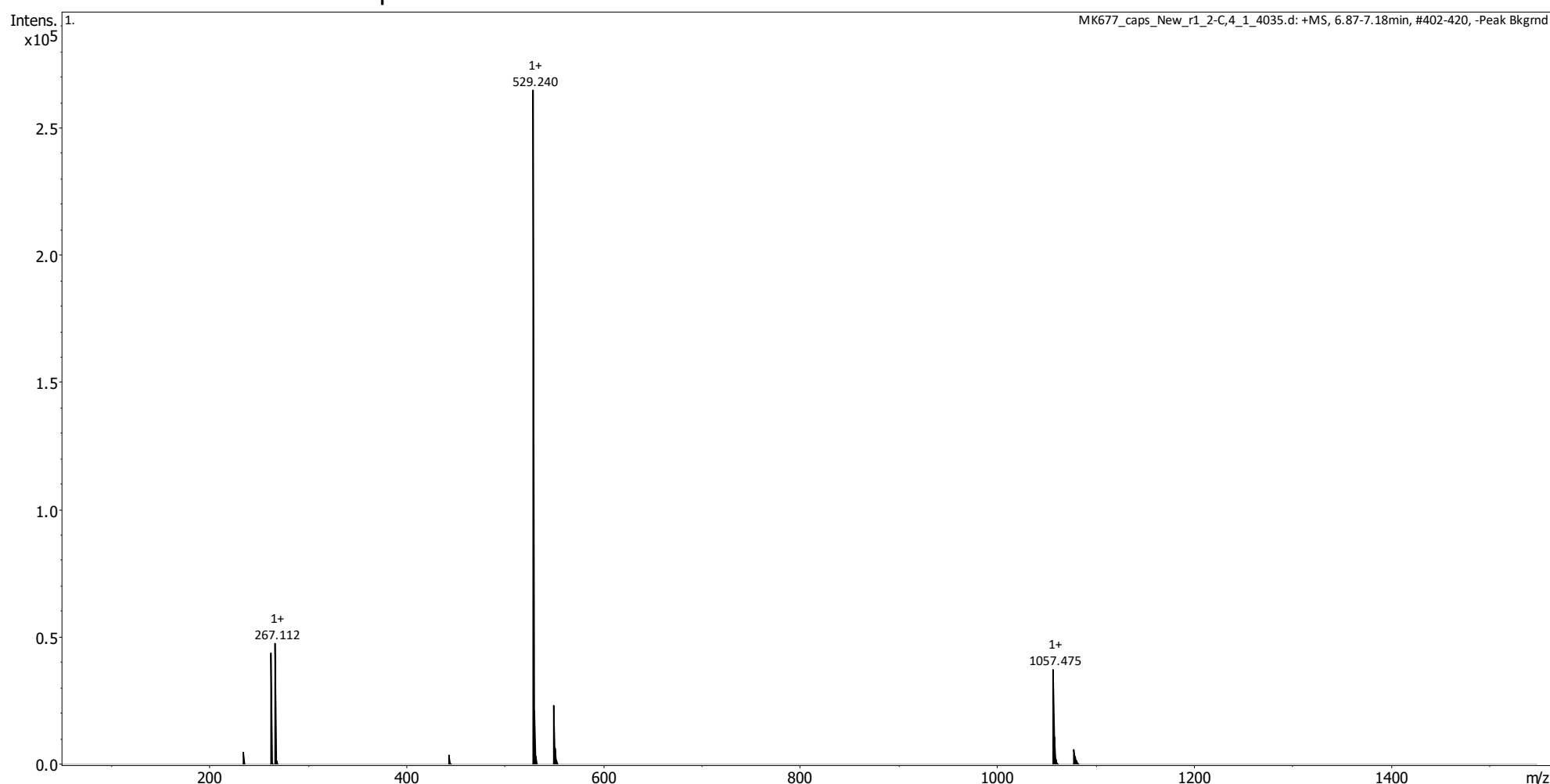
Measured monoisotopic mass : 528.24 Da

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



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