

Certificate of Analysis

MK-677 (Ibutamoren) Liquid

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

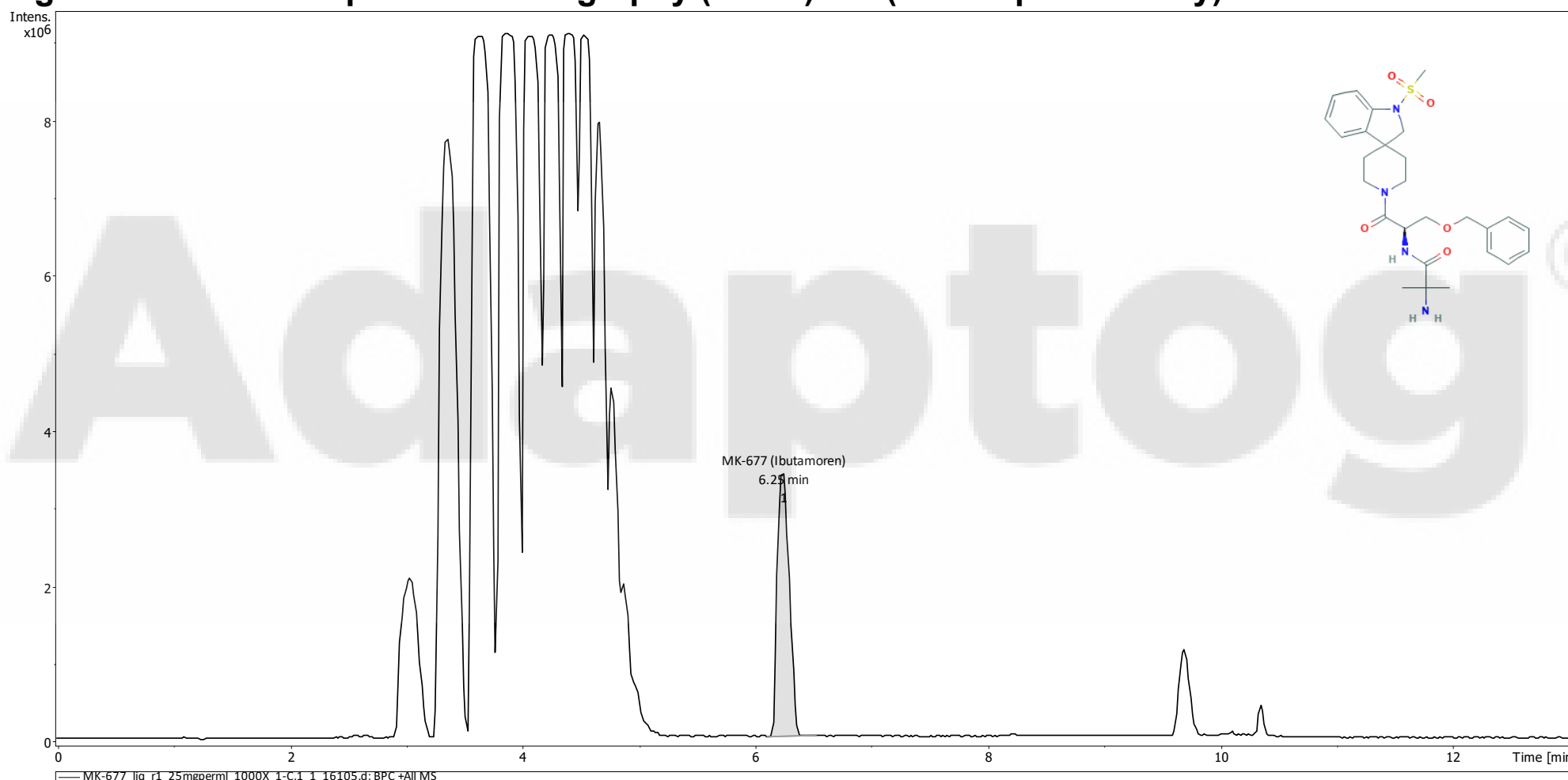
Compound : MK-677
Lot number : 2025-07-18
Analysis date : 2025-08-08
Concentration : 23.8 mg/ml
Method : HPLC-MS

Client : Adaptog

PubChem CID: 178024

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

High Performance Liquid Chromatography (HPLC) MS (Mass Spectrometry)



MK-677 detected at 6.25 minutes

Background peaks due to liquid excipient

Quantification by HPLC-MS

Replicates	mg/ml
MK-677_liq_r1_25mgperml_1000X	23.4
MK-677_liq_r2_25mgperml_1000X	24.2
Average mg/ml	23.8

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
MZ Biolabs
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2025-08-11

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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 : 528.25 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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