



Certificate of Analysis

NSI-189 Phosphate Salt

(4-benzylpiperazin-1-yl)-[2-(3-methylbutylamino)pyridin-3-yl]methanone;phosphoric acid

Compound : **NSI-189 PO4**

Client : **Kimera Chems**

Lot number : **KC-NSI-03**

Kimerachems.co

Analysis date : **2026-05-11**

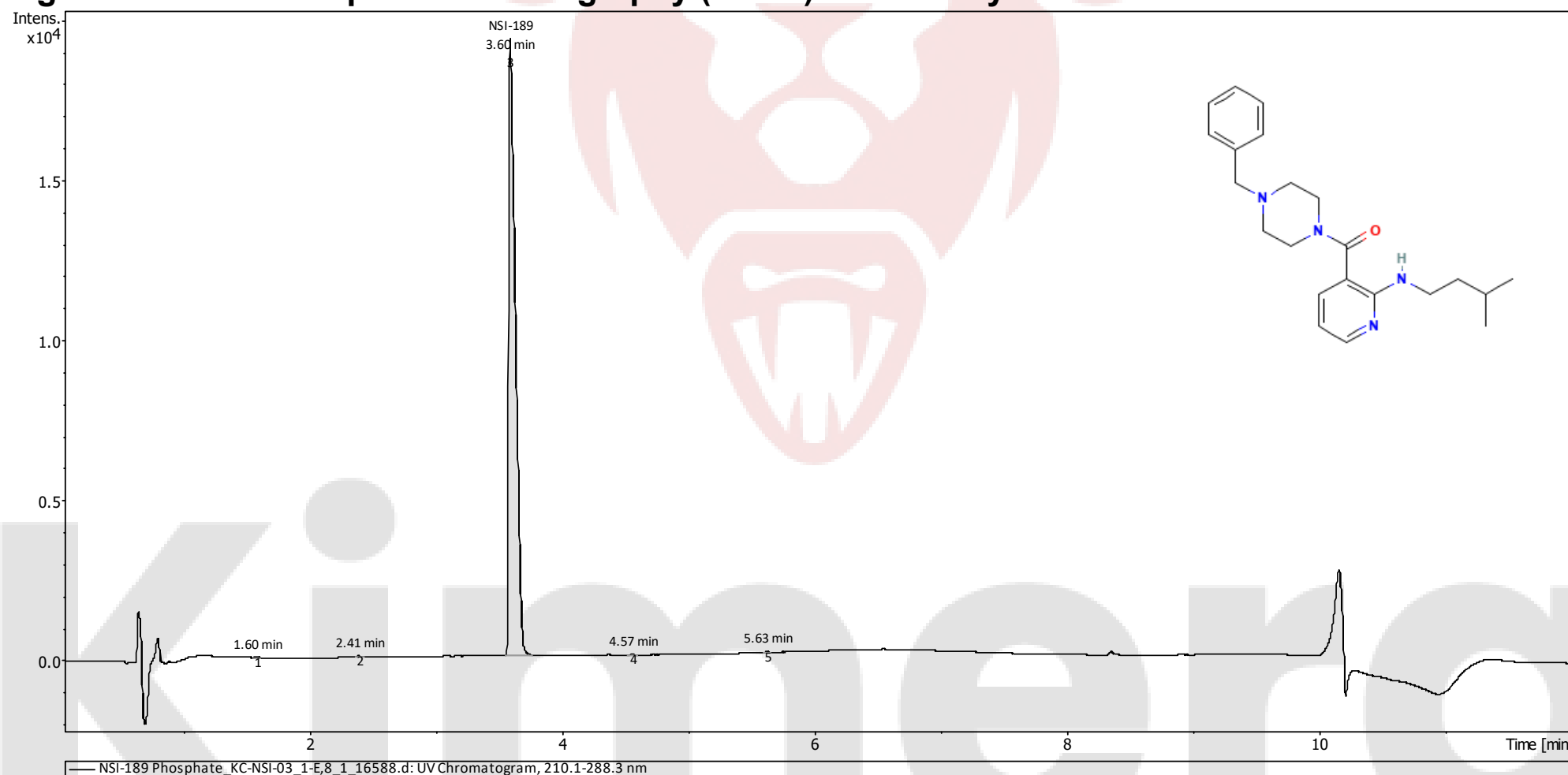
Purity % : **99.76%**

Method : **HPLC-UV-MS**

PubChem CID: 50922680

<https://pubchem.ncbi.nlm.nih.gov/compound/50922680>

High Performance Liquid Chromatography (HPLC) UV – Purity Test



PEAK LIST

	Time (min)	Area	%Area
1	1.60	4.82E+01	0.07
2	2.41	5.43E+01	0.08
3	3.60	7.19E+04	99.76
4	4.57	3.59E+01	0.05
5	5.63	3.53E+01	0.05

Number of detected peaks: 5

	Time (min)	Area	%Area	
1	1.60	4.82E+01	0.07	
2	2.41	5.43E+01	0.08	
3	3.60	7.19E+04	99.76	NSI-189
4	4.57	3.59E+01	0.05	
5	5.63	3.53E+01	0.05	

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



2026-05-15

NSI-189 Phosphate Salt

PubChem CID: 50922680

<https://pubchem.ncbi.nlm.nih.gov/compound/50922680>

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

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

Expected monoisotopic mass : 366.24 Da

Measured monoisotopic mass : 366.30 Da

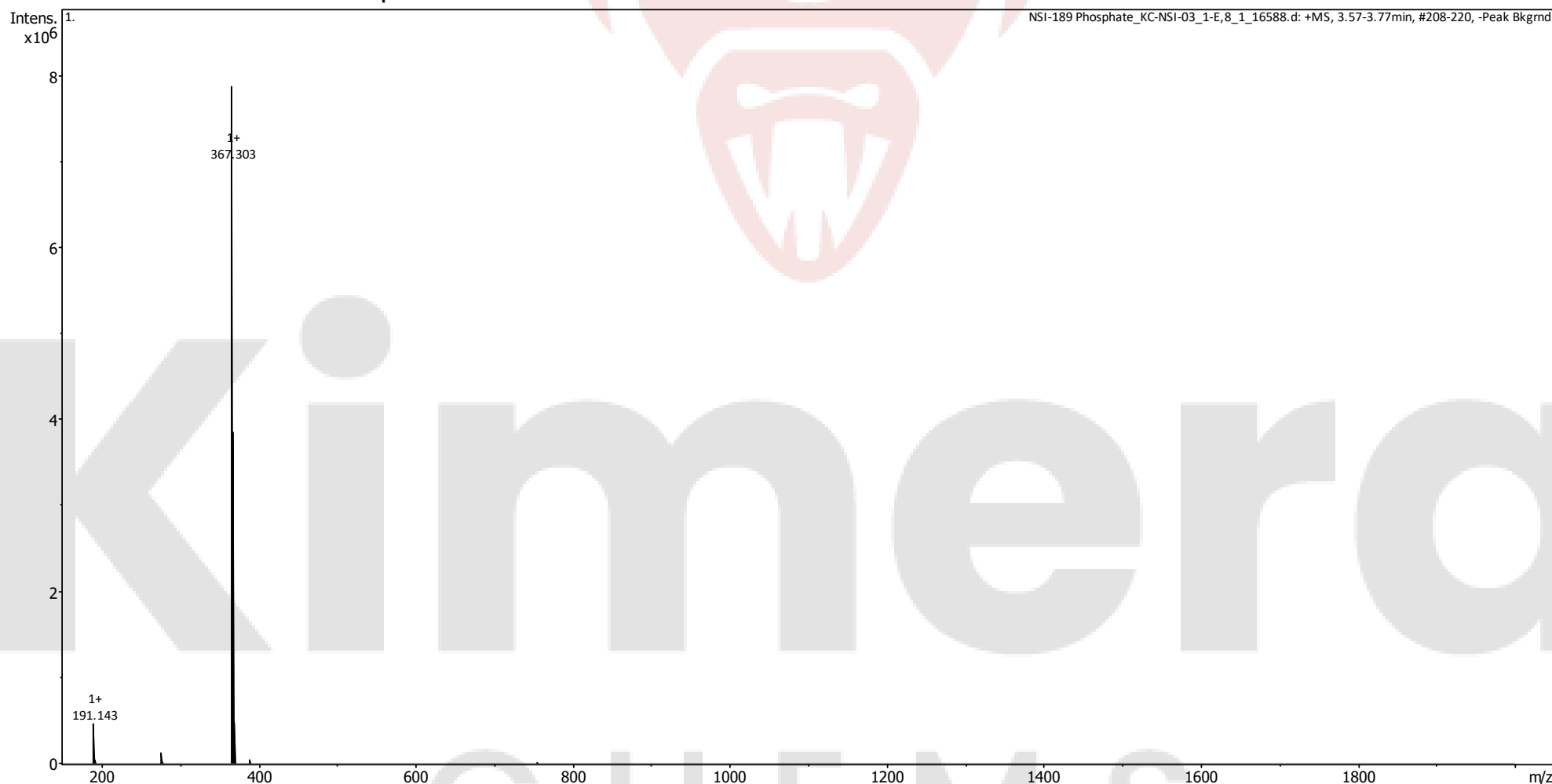
Molecular weight confirmed

Note : Molecular weight measurement for base molecule NSI-189, as the phosphate is ionically bonded and dissociates in solution to form free phosphate and free NSI-189.

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



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



2026-05-15