

MS Analysis for V4095401 Nusinersen

BioPharma Finder Report

Created: 8/12/2025 10:54:57 AM

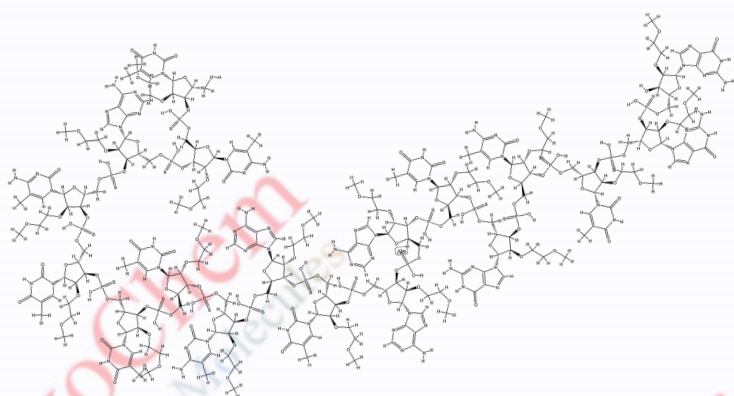
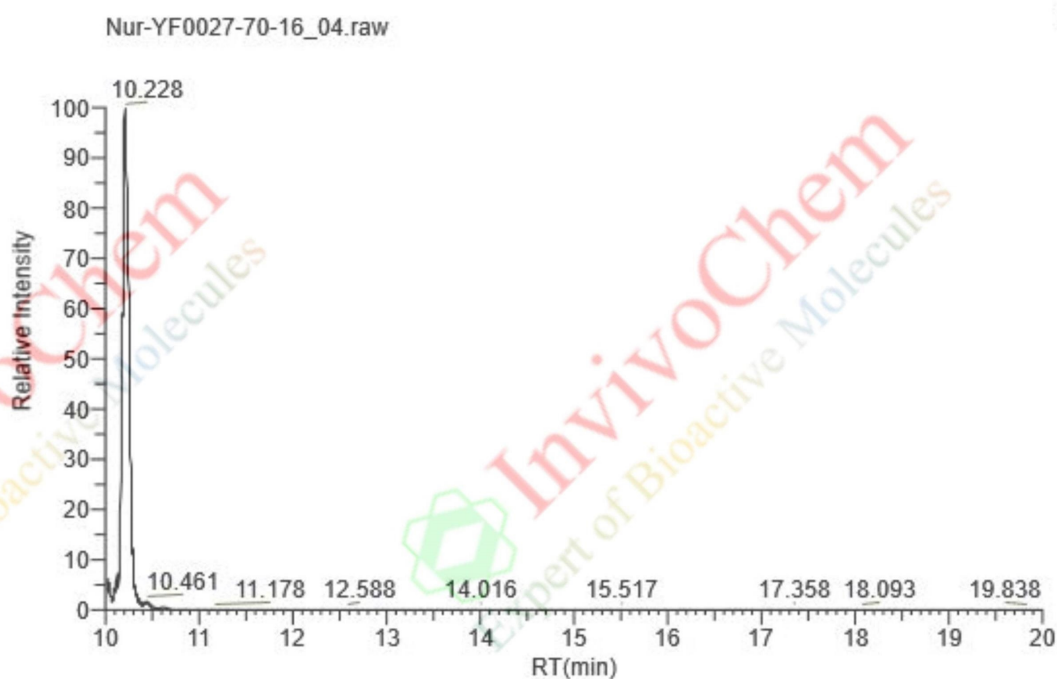
Sample Information

Raw File Name	E:\ \TOC \Nur-YF0027-70-16_04.raw
Instrument Method	C:\ProgramData\Dionex\Chromleon\Drivers\Thermo.MassSpectrometer\TNG-Mercur257d7dda-359e-4854-94b6-42ff0daefe6bR.meth
Vial	
Injection Volume (µL)	0
Sample Weight	0
Sample Volume (µL)	0
ISTD Amount	0
Dil Factor	0

Chromatogram Parameters

Use Restricted Time	True
Time Limits	10.000 - 20.000 minutes
Scan Range	5320 - 11462
m/z Range	570 - 2000
Chromatogram Trace Type	TIC
Sensitivity	High
Rel. Intensity Threshold (%)	1

Chromatogram



Product Name: Nusinersen
InvivoChem Cat #: V40954
CAS #: 1258984-36-9
Batch #: V4095401
Formula: C₂₃₄H₃₄₀N₆₁O₁₂₈P₁₇S₁₇
Molecular Weight: 7127.1942691803

MS Analysis for V4095401 Nusinersen

Main Parameters (Xtract)

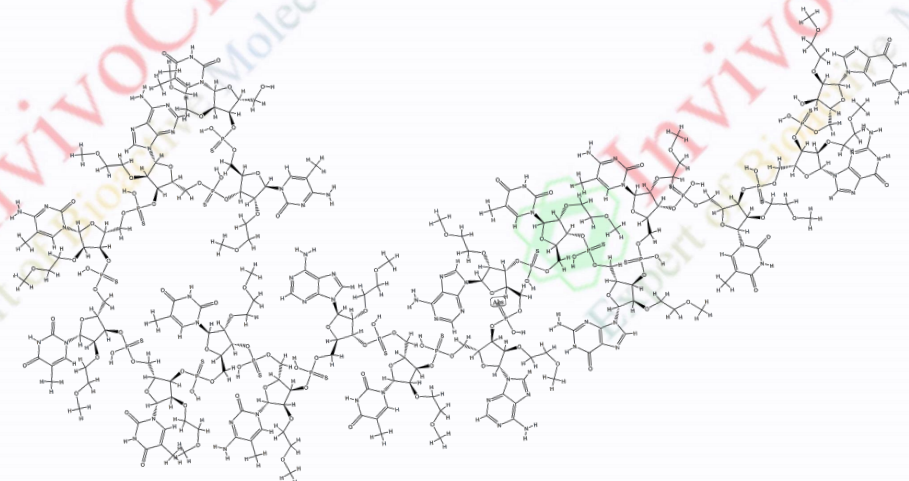
Output Mass Range	500 - 9000
Output Mass	M
S/N Threshold	3
Rel. Abundance Threshold (%)	0
Charge Range	1 - 10
Min. Num Detected Charge	3
Isotope Table	Sequence-Specific

Advanced Parameters (Xtract)

Calculate XIC	False
Fit Factor (%)	80
Remainder Threshold (%)	25
Consider Overlaps	True
Resolution at 400 m/z	
Raw File Specific	42426
Negative Charge	True
Charge Carrier	H
Minimum Intensity	1
Expected Intensity Error	3

Source Spectra Parameters

Source Spectra Method	Sliding Windows
Sliding Windows Definition	
RT Range	10.000 - 20.000 minutes
Target Avg Spectrum Width	0.1 minutes
Target Avg Spectrum Offset (%)	25
Sliding Windows Merging Parameters	
Merge Tolerance	30 ppm
Merge Scheme	Legacy Merge Scheme
Max RT Gap	1 minutes
Min. Number of Detected Intervals	3

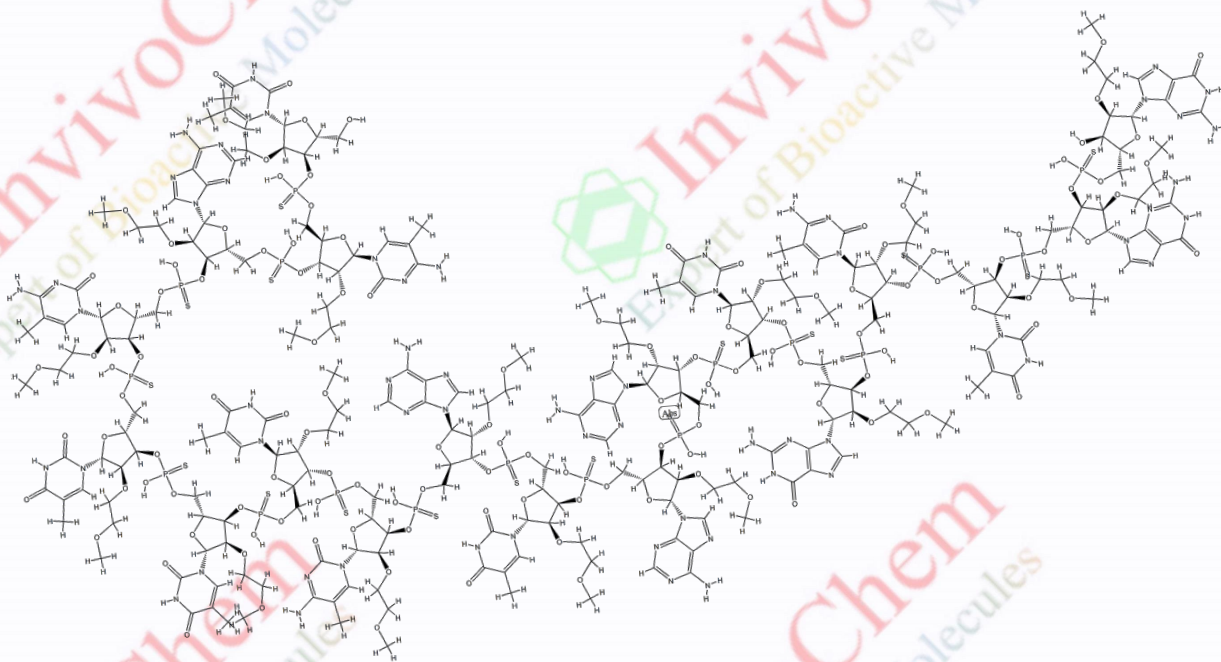


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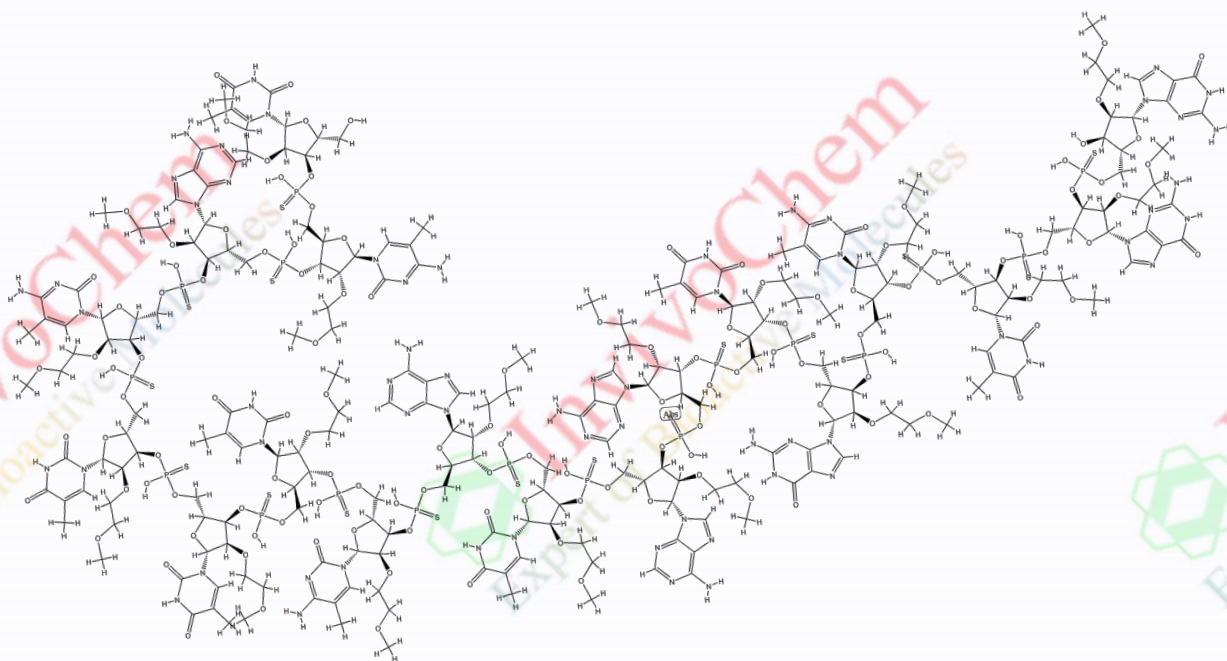
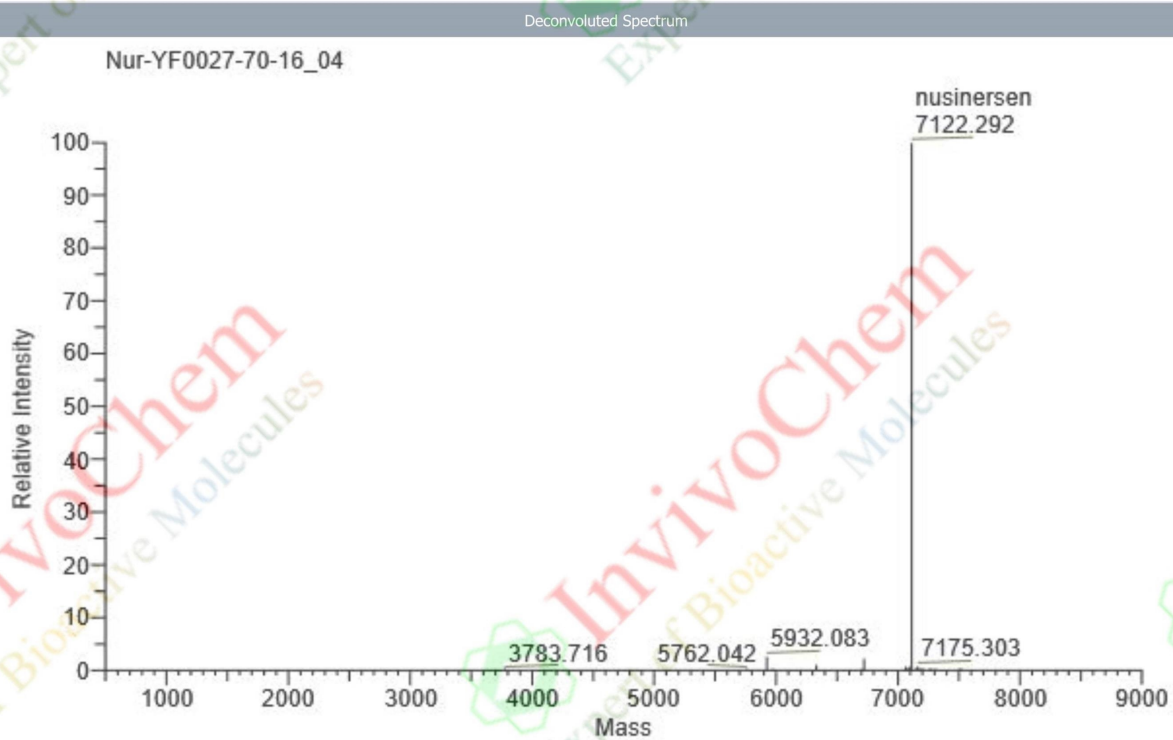
Sequences Information

Sequence Matching Mass Tolerance	10 ppm
Total Number of Sequences	1
Sequence Name	nusinersen
Static Modifications	Thymine(, T, x1), 2'MOE(, e, x1), Phosphorothioate(, s, x1), 5-Methylcytosine(, S, x1), Adenine(, A, x1), Guanine(, G, x1)
Max. Number of Modifications	1
Variable Modifications	
Glycosylation Type	None
Terminal Truncation Searching	No
Specificity	No
Lower Mass Limit	1000



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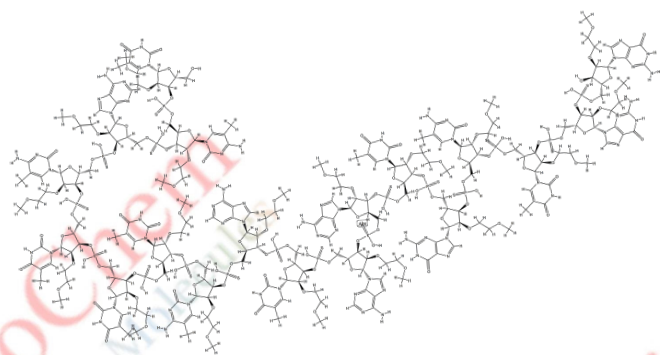


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Sliding Windows Xtract Masses Table

Row Number	Sequence Name	Modification	Monoisotopic Mass	Theoretical Mass (Da)	Matched Mass Error (ppm)	Average Mass	Sum Intensity	Relative Abundance	Fractional Abundance	Number of Charge States	Charge State Distribution	Number of Detected Intervals	Delta Mass	Scan Range	Start Time (min)	Stop Time (min)	Apex RT
1	nusinersen		7122.292	7122.276	2.2	7127.34	8285475653.98	100.00	90.19	6	4 - 9	156	0.000	4501 - 6722	10.075	15.051	10.225
2			5932.083	0.000	0.0	5936.26	226058258.71	2.73	2.46	6	3 - 8	4	-1190.209	4467 - 4545	10.000	10.175	10.050
3			6728.221	0.000	0.0	6732.97	195016161.35	2.35	2.12	5	4 - 8	7	-394.071	4467 - 4579	10.000	10.251	10.150
4			6335.146	0.000	0.0	6339.59	110328207.75	1.33	1.20	5	4 - 8	6	-787.146	4467 - 4567	10.000	10.224	10.101
5			7175.303	0.000	0.0	7180.39	86873882.01	1.05	0.95	6	4 - 9	10	53.011	4591 - 4748	10.275	10.626	10.425
6			7078.249	0.000	0.0	7083.27	80550709.12	0.97	0.88	5	4 - 8	7	-44.043	4478 - 4601	10.024	10.299	10.174
7			7106.276	0.000	0.0	7111.31	66238104.32	0.80	0.72	5	4 - 8	7	-16.016	4490 - 4613	10.051	10.326	10.201
8			7206.302	0.000	0.0	7211.41	43918294.48	0.53	0.48	6	4 - 9	7	84.010	4625 - 4736	10.350	10.599	10.476
9			7191.339	0.000	0.0	7196.44	33938896.66	0.41	0.37	6	4 - 9	12	69.048	4681 - 4849	10.475	10.850	10.624
10			6719.207	0.000	0.0	6723.95	21891741.07	0.26	0.24	5	4 - 8	5	-403.085	4478 - 4567	10.024	10.224	10.125
11			7091.283	0.000	0.0	7096.31	20059261.81	0.24	0.22	3	6 - 8	3	-31.009	4546 - 4613	10.175	10.326	10.249
12			7271.314	0.000	0.0	7276.47	4676546.04	0.06	0.05	6	4 - 9	8	149.023	4692 - 4815	10.499	10.774	10.624
13			3783.716	0.000	0.0	3786.39	3000338.07	0.04	0.03	4	2 - 5	9	-3338.576	4794 - 4928	10.725	11.025	10.875
14			7205.309	0.000	0.0	7210.42	2534723.90	0.03	0.03	6	4 - 9	3	83.017	4704 - 4770	10.526	10.674	10.576
15			7516.330	0.000	0.0	7521.65	1969967.59	0.02	0.02	3	7 - 9	3	394.038	4602 - 4669	10.299	10.450	10.349
16			7312.385	0.000	0.0	7317.57	1352353.13	0.02	0.01	6	4 - 9	12	190.094	4816 - 4984	10.774	11.149	10.999
17			7313.373	0.000	0.0	7318.56	800552.90	0.01	0.01	6	4 - 9	4	191.081	4771 - 4849	10.674	10.850	10.775
18			7526.282	0.000	0.0	7531.61	544466.60	0.01	0.01	6	4 - 9	16	403.990	5512 - 5722	12.325	12.799	12.625
19			7219.361	0.000	0.0	7224.48	499686.58	0.01	0.01	6	4 - 9	7	97.069	4929 - 5041	11.025	11.276	11.150
20			7163.312	0.000	0.0	7168.39	358617.38	0.00	0.00	5	4 - 9	6	41.020	4839 - 4939	10.825	11.049	10.951
21			7150.300	0.000	0.0	7155.37	289577.06	0.00	0.00	3	6 - 8	4	28.008	4783 - 4860	10.701	10.874	10.775
22			7164.318	0.000	0.0	7169.40	245769.07	0.00	0.00	5	5 - 9	6	42.027	4906 - 5007	10.974	11.200	11.075
23			7281.395	0.000	0.0	7286.56	176994.84	0.00	0.00	4	4 - 8	9	159.103	5300 - 5433	11.850	12.150	12.000
24			5762.042	0.000	0.0	5766.11	165837.08	0.00	0.00	3	3 - 7	5	-1360.250	4906 - 4996	10.974	11.176	11.075
25			5987.151	0.000	0.0	5991.36	115299.77	0.00	0.00	3	3 - 7	5	-1135.141	4884 - 4973	10.925	11.125	11.025



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