Supporting Information
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Supporting Information

Convertible Fluorous Linker-Assisted Synthesis of Tetrasubstituted Furans

Asha Kadam, Stephanie B. Buckley, Trinh Dinh, Ryan Fitzgerald, Wei Zhang*
Elemental Composition Report

Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -1.5, max = 150.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
122 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)
Elements Used:
Xuanming Deng, Zhang-Sa
University of Illinois, SCS, Mass Spectrometry Lab
QToF_32574 53 (2.21) AM (Cen:3, 80.00, Ar:15000.0, 0.716.46, 0.70 LS 3), Scan (65, 303.00), Cm (48.93) Cat# U3521

<table>
<thead>
<tr>
<th>Mass</th>
<th>Calc. Mass</th>
<th>mDa</th>
<th>PPM</th>
<th>DBE</th>
<th>i-FIT</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>879.0550</td>
<td>879.0557</td>
<td>-0.7</td>
<td>-0.8</td>
<td>12.5</td>
<td>7.2</td>
<td>C30 H28 O9 F17 S</td>
</tr>
</tbody>
</table>

Minimum: 5.0
Maximum: 10.0
100.0
Elemental Composition Report

Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -1.5, max = 150.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
240 formula(s) evaluated with 2 results within limits (all results up to 1000) for each mass
Elements Used:
C: 0-100  H: 0-150  N: 0-5  O: 0-6

Xiaoming Deng, Zhang, 7c
University of Illinois, SCS, Mass Spectrometry Lab
Qtof 0257z 60 (3.79) AM (Cen3, 80.00, Ar;1600000.716:46,0.70,LS 3); Sm (8G, 2x3.00); Cm (55.53)

Q-tof UBE521
t: TOF MS EG+
2.22e+003

<table>
<thead>
<tr>
<th>Mass</th>
<th>Calc. Mass</th>
<th>mDa</th>
<th>PPM</th>
<th>DBE</th>
<th>i-FIT</th>
<th>Formula</th>
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<tbody>
<tr>
<td>471.1806</td>
<td>471.1808</td>
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<td>0.3</td>
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<td>C29 H27 O6</td>
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<tr>
<td>471.1821</td>
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<td>2.9</td>
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<td>C30 H23 N4 O2</td>
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7c

Print of all graphic windows
Data File: C:\CHEM321\DATA\2010-10, 11, 12\10-10-21\053-0301.D
Sample Name: aiblc3 trac 9

Acq. Operator: Hong
Seq. Line: 3
Acq. Instrument: Instrument 1
Location: Vial 53
Injection Date: 10/22/2010 3:08:28 PM
Inj: 1
Inj Volume: 4 µl

Acq. Method: C:\CHEM321\METHODS\GETMETHOD.D
Last changed: 10/13/2010 5:16:06 PM by Asha
Analysis Method: C:\CHEM321\METHODS\GETMETHOD.D
Last changed: 1/21/2011 3:32:41 PM by Asha

Current Chromatogram(s)

DAD A, Sig=254.4 Ref=360.100 (2010-10, 11, 12\10-10-21\053-0301.D)

DAD B, Sig=210.8 Ref=360.100 (2010-10, 11, 12\10-10-21\053-0301.D)

MSD1 TIC, MS File (C:\CHEM321\DATA\2010-10, 11, 12\10-10-21\053-0301.D) APCI, Pos, Scan, Frag: 100

MS Spectrum

*MSD1 SPC, Smal=0.839 of C:\CHEM321\DATA\2010-10, 11, 12\10-10-21\053-0301.D APCI, Pos, Scan, Frag: 100
Max: 706569
**Elemental Composition Report**

**Single Mass Analysis**

Tolerance = 10.0 PPM / DBE: min = -1.5, max = 150.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
243 formula(e) evaluated with 2 results within limits (all results up to 1000) for each mass

Elements Used:
C: 0-100  H: 0-150  N: 0-6  O: 0-6  F: 3-3

Xianming Deng, Zhang-9a

University of Illinois, SCS, Mass Spectrometry Lab
Qtof_32573 25 (1.793) AM (Cen,3, 80.00, Ac; 15000.0, 716.46, 0.76, 1.83, 3); Sn (5G, 2x3.00); Cm (25)

<table>
<thead>
<tr>
<th>Mass</th>
<th>Calc. Mass</th>
<th>mDa</th>
<th>PPM</th>
<th>DBE</th>
<th>i-FIT</th>
<th>Formula</th>
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<tbody>
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<tr>
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<td>-2.8</td>
<td>21.5</td>
<td>5.7</td>
<td>C30 H21 N5 O2 F3</td>
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