Silver Mediated Thio-Acetoxylation and TFA Triggered Cyclization of Amino Disulfides with Unactivated Alkenes: Synthesis of 3-Aryl/Alkyl-1,4-benzothiazines

Ch. Durga Prasad, Ajay Verma, Moh. Sattar, Sangit Kumar*

Content

HRMS of synthesized compounds S2-S27
HRMS spectra of compound 1a
HRMS spectra of compound 1b
HRMS spectra of compound 1c

![Chemical Structure](image)

### Display Report

<table>
<thead>
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<th>Acquisition Date</th>
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### Acquisition Parameter

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<th>Set Dry Heater</th>
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<td>0.4 Bar</td>
<td>180 °C</td>
<td>4.0 l/min</td>
<td>Waste</td>
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### Intensity vs. Time [min]

![Graph 1](image)

### Intensity vs. m/z

- **Graph 2**: MS, 0.1-0.2 min (m/z 6-15)
  - Peaks at 218.2123, 374.2759, 370.0912, 370.0912, 475.3271, 701.4960
- **Graph 3**: MS, 0.1-0.2 min (m/z 6-15)
  - Peaks at 370.0912, 370.0912, 371.0924, 372.0890
- **Graph 4**: Mass: 370.0984, 370.0984, 371.0917, 372.0844

**C18H18FROSS, M+Na : 370.99**

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HRMS spectra of compound 1d
HRMS spectra of compound 1e

Display Report

Analysis Info
Analysis Name: D:\Data\user data\2014\NOVEMBER\14 NOV Dr S. Kumar-DP-534 d
Method: tune_low.m
Sample Name: DP-534
Comment: 

Acquisition Parameter
Source Type: ESI
Ion Polarity: Positive
Set Nebulizer: 0.4 Bar
Set Dry Heater: 180 °C
Set Divert Valve: Waste

Scan Begin: 50 m/z
Set End Plate Offset: -500 V
Set Gas: 4.0 l/min
Set Collision Cell RF: 130.0 Vpp

Intensities

Dr S. Kumar-DP-534 d. TIC + All MS

Intensities

+MS, 0.1-0.1 min #3-8

Intensities

+MS, 0.1-0.1 min #3-8

Intensities

C19H21NO4S, M+Na 382.11

Brucker Compass Data Analysis 4.0

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Page 1 of 1
HRMS spectra of compound If

![Chemical Structure](image)

**Display Report**

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**UV Chromatogram, 200-400 nm**

**EI (selected) - MS/MS**

**EI (selected) - MS/MS**

**Bruker Compass DataAnalysis 4.0**

**Page 1 of 1**
HRMS spectra of compound \textit{1g}\n
\begin{center}
\includegraphics[width=\textwidth]{HRMS_spectra.png}
\end{center}
HRMS spectra of compound 1h
HRMS spectra of compound Ii

![HRMS spectra of compound Ii](image)
HRMS spectra of compound \textit{1j}

\begin{center}
\includegraphics[width=0.5\textwidth]{figure}
\end{center}
HRMS spectra of compound 1k
HRMS spectra of compound 1m
HRMS spectra of compound 2a
HRMS spectra of compound 2b
HRMS spectra of compound 2c
HRMS spectra of compound 2d
HRMS spectra of compound 2e
HRMS spectra of compound 2f
HRMS spectra of compound 2g
Display Report

Analysis Info
Analysis Name: D:/Data/user_data/2015/JUNE-2015/02-JUNE-2015/Dr.S.Kumar-DP-564.d
Method: tune_lowm
Sample Name: DP-564
Comment: 

Acquisition Date: 6/2/2015 4:42:50 PM
Acquisition Parameter
Source Type: ESI
Focus: No active
Scan Begin: 50 m/z
Scan End: 3000 m/z

Ion Polarity: Positive
Set Capillary: 4500 V
Set End Plate Offset: -500 V
Set Collision Cell RF: 120 V
Set Nebulizer: 0.4 Bar
Set Dry Heater: 180 °C
Set Dry Gas: 4.0 l/min
Set Divert Valve: Waste

HRMS spectra of compound 2h
HRMS spectra of compound 2i
HRMS spectra of compound 2j
HRMS spectra of compound 2k
HRMS spectra of compound 21

![Chemical Structure](image)

**Display Report**

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<td>Set Divert Valve</td>
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**Acquisition Parameters**

![Graph 1]

**Graph 1**

- Intensity: \(x^{10^{4}}\)
- Time [min]

**Graph 2**

- Intensity: \(x^{10^{4}}\)
- m/z

**Graph 3**

- Intensity: \(x^{10^{4}}\)
- m/z

- Compound C19H16N4OS, M+H: 310.13

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HRMS spectra of compound 3a
HRMS spectra of compound 3b