Electronic Supplementary Information

Steric Hindrance Effects in Tripodal Ligands for Extraction and Back-Extraction of Ag⁺

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HRMS spectra of tripodal ligands (6a – 6g) 32–38
ESI-MS spectra of tripodal ligands (6a – 6g + Ag⁺) 39–42
$^1$H NMR Spectrum of 3a

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$^{13}$C NMR Spectrum of 3a

![NMR Spectrum Diagram]
$^1$H NMR Spectrum of 3b
$^{13}$C NMR Spectrum of $3b$
$^1$H NMR Spectrum of 3c
$^{13}$C NMR Spectrum of 3c

![NMR Spectrum](image)
$^1$H NMR Spectrum of 4c
$^{13}$C NMR Spectrum of 4c
$^1$H NMR Spectrum of $5a$
$^{13}$C NMR Spectrum of 5a
$^1$H NMR Spectrum of 5b
$^{13}$C NMR Spectrum of 5b
$^1$H NMR Spectrum of 5c
$^{13}$C NMR Spectrum of 5c

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$^1$H NMR Spectrum of 6a
$^{13}$C NMR Spectrum of 6a
$^1$H Spectrum of 6a + AgNO$_3$

Peaks marked with an asterisk (*) showed significant changes compared to the spectra of 6a recorded in the absence of AgNO$_3$. 

![Spectrum Image]
$^{13}$C NMR Spectrum of $6a + \text{AgNO}_3$

Peaks marked with an asterisk (*) showed significant changes compared to the spectra of $6a$ recorded in the absence of AgNO$_3$. 

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$^1$H NMR Spectrum of 6b

![H NMR Spectrum of 6b](image-url)
$^{13}$C NMR Spectrum of 6b
$^1$H NMR Spectrum of 6c
**$^{13}$C NMR Spectrum of 6c**

![NMR Spectrum Image]
$^1$H NMR Spectrum of 6d
$^{13}$C NMR Spectrum of 6d
$^1$H NMR Spectrum of $6e$
$^{13}$C NMR Spectrum of 6e
$^1$H NMR Spectrum of $6f$
$^{13}$C NMR Spectrum of 6f
$^1$H NMR Spectrum of 6g
$^{13}$C NMR Spectrum of 6g
HRMS Spectrum of 6a

CH3 x 3 3 ppm 5 ul/min
Me3_02 115 (1.082) Cm (100:120)

[M+H]⁺
426.1387

1: TOF MS ES⁺
1.54e6

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HRMS Spectrum of 6c

iPrx2 3 ppm 5 ul/min

iPrx2_01 112 (1.056) Cm (100 120)

[\text{M+H}]^+

482.2012

483.2041

484.1996

495.2006

511.2349

513.2506

565.2374

754.2716

878.2897

963.3953

1: TOF MS ES+
6.40e6
HRMS Spectrum of 6d

iPrx3 3ppm 5uL/min
iPrx3_01 101 (0.942) Cm (100:120)

$[M+H]^+$

100
510.2327

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HRMS Spectrum of 6e
HRMS Spectrum of 6f

t-Bu2 3 ppm 5 μl/min

1: TOF MS ES+
   M+H+ 7.60e6

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ESI-MS Spectrum of 6a + AgClO₄

ESI-MS Spectrum of 6b + AgClO₄
ESI-MS Spectrum of $6c + \text{AgClO}_4$

![ESI-MS Spectrum of $6c + \text{AgClO}_4$](image1)

ESI-MS Spectrum of $6d + \text{AgClO}_4$

![ESI-MS Spectrum of $6d + \text{AgClO}_4$](image2)
ESI-MS Spectrum of 6e + AgClO₄

ESI-MS Spectrum of 6f + AgClO₄
ESI-MS Spectrum of 6g + AgClO₄