## Supplementary


${ }^{1} \mathrm{H}$ NMR of compound 18a

${ }^{13}$ C NMR of compound 18 a


MS of compound 18a

${ }^{1} \mathrm{H}$ NMR of compound $\mathbf{1 8 b}$

${ }^{13} \mathrm{C}$ NMR of compound $\mathbf{1 8 b}$


MS of compound 22b

${ }^{\mathbf{1}} \mathrm{H}$ NMR of compound $\mathbf{1 8 g}$

${ }^{13} \mathrm{C}$ NMR of compound 18 g


MS of compound 18 g

${ }^{1} \mathrm{H}$ NMR of compound 18 h

${ }^{13} \mathrm{C}$ NMR of compound 18 h


MS of compound 18 h

Thao-III-11k




${ }^{1} \mathrm{H}$ NMR of compound 18 i

${ }^{13} \mathrm{C}$ NMR of compound 18 i

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## MS of compound 18i


${ }^{1} \mathrm{H}$ NMR of compound 19 a

${ }^{13} \mathrm{C}$ NMR of compound 19a


MS of compound 19a

${ }^{1}$ H NMR of compound 19b

${ }^{13}$ C NMR of compound 19b


MS of compound 19b


${ }^{13} \mathrm{C}$ NMR of compound 19 c


MS of compound 19c

${ }^{1}$ H NMR of compound 19d

${ }^{13}$ C NMR of compound 19d


MS of compound 19d

${ }^{1} \mathrm{H}$ NMR of compound 19 e

${ }^{13} \mathrm{C}$ NMR of compound 19 e


MS of compound 19e

${ }^{1} \mathrm{H}$ NMR of compound 19 f

${ }^{13}$ C NMR of compound 19 f


MS of compound 19f

${ }^{1}$ H NMR of compound 19 g

${ }^{13} \mathrm{C}$ NMR of compound 19 g


MS of compound 19 g

${ }^{1}$ H NMR of compound 19h

${ }^{13}$ C NMR of compound $19 h$


MS of compound 19h

${ }^{1} \mathrm{H}$ NMR of compound 19 i

${ }^{13} \mathrm{C}$ NMR of compound 19 i


MS of compound 19i

${ }^{1} \mathrm{H}$ NMR of compound 20a

${ }^{13} \mathrm{C}$ NMR of compound 20 a


MS of compound 20a

${ }^{1}$ H NMR of compound 20b

${ }^{13}$ C NMR of compound 20b


MS of compound 20b

${ }^{1} \mathrm{H}$ NMR of compound 20 g

${ }^{13}$ C NMR of compound 20 g


MS of compound 20 g

${ }^{1} \mathrm{H}$ NMR of compound $\mathbf{2 0 h}$

${ }^{13} \mathrm{C}$ NMR of compound 20 h


MS of compound 20 h
(
${ }^{1} \mathrm{H}$ NMR of compound 20 i



MS of compound 20i

${ }^{1} \mathrm{H}$ NMR of compound 21a
(
${ }^{13} \mathrm{C}$ NMR of compound 21a

${ }^{1} \mathrm{H}$ NMR of compound 21 i

${ }^{13} \mathrm{C}$ NMR of compound 21 i

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${ }^{1} \mathrm{H}$ NMR of compound 22a

${ }^{13}$ C NMR of compound 22a


MS of compound 22a

${ }^{\mathbf{1}} \mathbf{H}$ NMR of compound 22b

${ }^{13}$ C NMR of compound 22b


MS of compound 22b
(
${ }^{1}$ H NMR of compound 22g

${ }^{13}$ C NMR of compound 22 g


MS of compound $\mathbf{2 2 g}$

${ }^{\mathbf{1}} \mathbf{H}$ NMR of compound $\mathbf{2 2 h}$

${ }^{13}$ C NMR of compound 22 h


MS of compound 22h

${ }^{1} \mathrm{H}$ NMR of compound 22i

${ }^{13} \mathrm{C}$ NMR of compound 22 i


MS of compound 22i

