Supporting Information for

Isolation and structure characterization of cytotoxic phorbol esters from the seeds of Croton tiglium

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Fig. 61S $^{13}$C NMR and DEPT-135 spectrum of compound 9 in CDCl$_3$
Fig. 62S HSQC spectrum of compound 9 in CDCl$_3$
Fig. 63S HMBC spectrum of compound 9 in CDCl$_3$
Fig. 64S ROESY spectrum of compound 9 in CDCl$_3$
**Fig. 65S** Cells were treated with various concentrations for 72 hr. Cytotoxicity was measured using MTT assay. Data are from two independent experiments with triplicates.

**Fig. 66S** Cells were treated with various concentrations for 72 hr. Cytotoxicity was measured using SRB assay. Data are from two independent experiments with triplicates.
### Elemental Composition Report

Tolerance = 50.0 PPM / DBE: min = -1.5, max = 50.0
Isotope cluster parameters: Separation = 1.0   Abundance = 1.0%

Monoisotopic Mass, Odd and Even Electron Ions
23 formula(e) evaluated with 1 results within limits (up to 20 closest results for each mass)

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**Fig. 1S** ESIHRMS spectrum of compound 1

**Fig. 2S** IR spectrum of compound 1
**Fig. 3S** $^1$H NMR spectrum of compound 1 in CDCl$_3$

**Fig. 4S** $^{13}$C NMR and DEPT-135 spectra of compound 1 in CDCl$_3$
Fig. 5S HSQC spectrum of compound 1 in CDCl₃

Fig. 6S ¹H-¹H COSY spectrum of compound 1 in CDCl₃
Fig. 7S HMBC spectrum of compound 1 in CDCl₃

Fig. 8S ROESY spectrum of compound 1 in CDCl₃
Fig. 9S ESIHRMS spectrum of compound 2

Fig. 10S IR spectrum of compound 2
Fig. 11S $^1$H NMR spectrum of compound 2 in CDCl$_3$

Fig. 12S $^{13}$C NMR and DEPT-135 spectra of compound 2 in CDCl$_3$
Fig. 13S HSQC spectrum of compound 2 in CDCl₃

Fig. 14S HMBC spectrum of compound 2 in CDCl₃
**Fig. 15S** ROESY spectrum of compound 2 in CDCl3

**Fig. 16S** ESIHRMS spectrum of compound 3
Fig. 17S IR spectrum of compound 3

Fig. 18S $^1$H NMR spectrum of compound 3 in CDCl$_3$
Fig. 19S $^{13}$C NMR and DEPT-135 spectra of compound 3 in CDCl$_3$

Fig. 20S HSQC spectrum of compound 3 in CDCl$_3$
Fig. 21S HMBC spectrum of compound 3 in CDCl₃

Fig. 22S ROESY spectrum of compound 3 in CDCl₃
Fig. 23S ESIHRMS spectrum of compound 4

Fig. 24S IR spectrum of compound 4
Fig. 25S $^1$H NMR spectrum of compound 4 in CDCl$_3$

Fig. 26S $^{13}$C NMR and DEPT-135 spectrum of compound 4 in CDCl$_3$
Fig. 27S HSQC spectrum of compound 4 in CDCl₃

Fig. 28S HMBC spectrum of compound 4 in CDCl₃
Fig. 29S ROESY spectrum of compound 4 in CDCl₃

Fig. 30S ESIHRMS spectrum of compound 5
**Fig. 31S** IR spectrum of compound 5

**Fig. 32S** $^1$H NMR spectrum of compound 5 in CDCl$_3$
Fig. 33S $^{13}$C NMR and DEPT-135 spectrum of compound 5 in CDCl$_3$

Fig. 34S HSQC spectrum of compound 5 in CDCl$_3$
Fig. 35S HMBC spectrum of compound 5 in CDCl₃

Fig. 36S NOESY spectrum of compound 5 in CDCl₃
**Fig. 37S** ESIHRMS spectrum of compound 6

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Fig. 39S $^1$H NMR spectrum of compound 6 in CDCl$_3$

Fig. 40S $^{13}$C NMR and DEPT-135 spectrum of compound 6 in CDCl$_3$
Fig. 41S HSQC spectrum of compound 6 in CDCl3

Fig. 42S HMBC spectrum of compound 6 in CDCl3
Fig. 43S NOESY spectrum of compound 6 in CDCl3

Elemental Composition Report

Tolerance = 50.0 PPM / DBE: min = -1.5, max = 50.0
Isotope cluster parameters: Separation = 1.0, Abundance = 1.0%

Monoisotopic Mass, Odd and Even Electron Ions
17 formula(e) evaluated with 1 results within limits (up to 20 closest results for each mass)

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Fig. 44S ESIHRMS spectrum of compound 7
Fig. 45S IR spectrum of compound 7

Fig. 46S $^1$H NMR spectrum of compound 7 in CDCl$_3$
Fig. 47S $^{13}$C NMR and DEPT-135 spectrum of compound 7 in CDCl$_3$.

Fig. 48S HSQC spectrum of compound 7 in CDCl$_3$. 
Fig. 49S HMBC spectrum of compound 7 in CDCl₃

Fig. 50S NOESY spectrum of compound 7 in CDCl₃
Elemental Composition Report

Tolerance = 50.0 PPM / DBE: min = -1.5, max = 50.0
Isotope cluster parameters: Separation = 1.0  Abundance = 1.0%

Monoisotopic Mass, Odd and Even Electron Ions
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Fig. 51S ESIHRMS spectrum of compound 8

Fig. 52S IR spectrum of compound 8
**Fig. 53** $^1$H NMR spectrum of compound 8 in CDCl$_3$

**Fig. 54** $^{13}$C NMR and DEPT-135 spectrum of compound 8 in CDCl$_3$
**Fig. 55S** HSQC spectrum of compound 8 in CDCl$_3$

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Fig. 57S HMBC spectrum of compound 8 in CDCl₃

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Fig. 59S IR spectrum of compound 9

Fig. 60S $^1$H NMR spectrum of compound 9 in CDCl$_3$
**Fig. 61S** $^{13}$C NMR and DEPT-135 spectrum of compound 9 in CDCl$_3$

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Fig. 63S HMBC spectrum of compound 9 in CDCl$_3$

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