## Supplementary data

## Identification of arachiflavanol A and proanthocyanidin A2 from the ethyl acetate extract of peanut skin

Luyen Thi Nguyen¹, Uyen Thu Nguyen¹, Giang Hoang Do¹, Duong Thuy Hoang¹, Le Nhat Thi Bui¹, Minh Thu Thi Nguyen¹ and Dat Tien Nguyen $^{*1}$ 

#	MF	Monoisotopic mass	$\Delta$ (PPM)
1	$C_{21}H_{17}O_9$	413.0873	-3.77
2	C <sub>21</sub> H <sub>17</sub> O <sub>9</sub> Na	435.0654	2.54

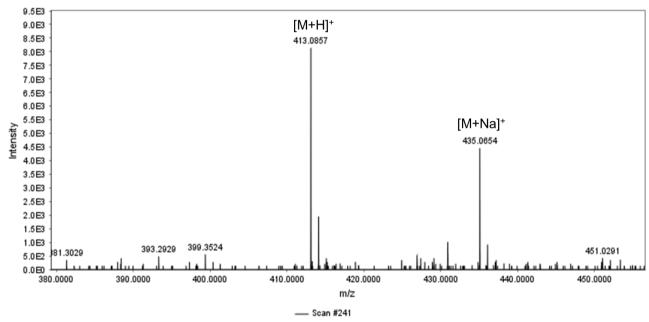


Figure S1: HR-ESI-MS spectrum of compound 1

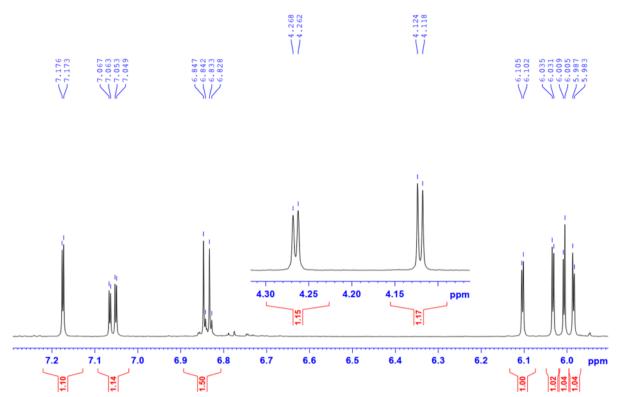


Figure S2: <sup>1</sup>H-NMR (600 MHz, MeOD) spectrum of compound **1** 

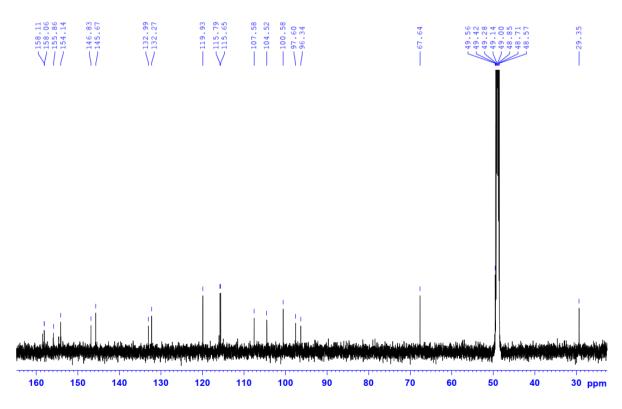


Figure S3: <sup>13</sup>C-NMR (600 MHz, MeOD) spectrum of compound **1** 

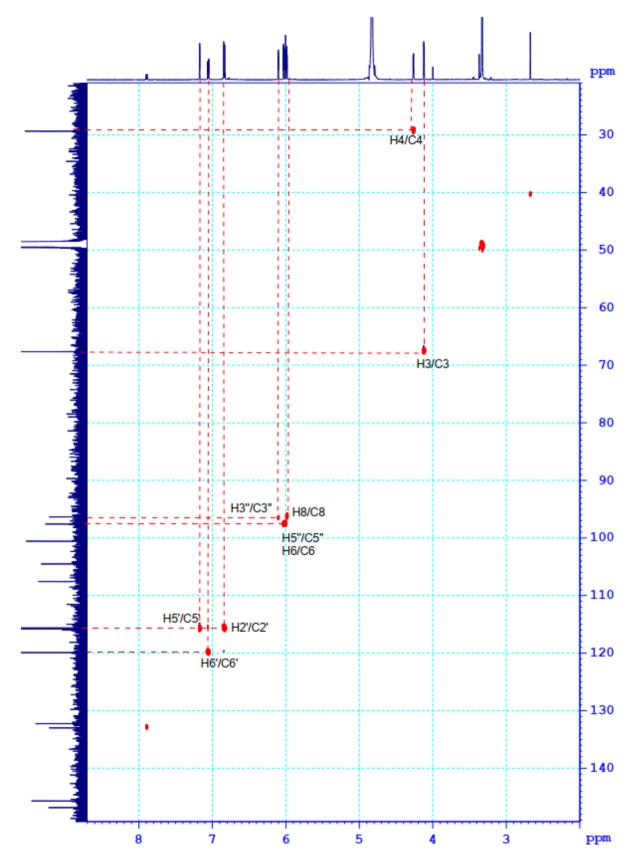


Figure S4: HSQC spectrum of compound  ${\bf 1}$ 

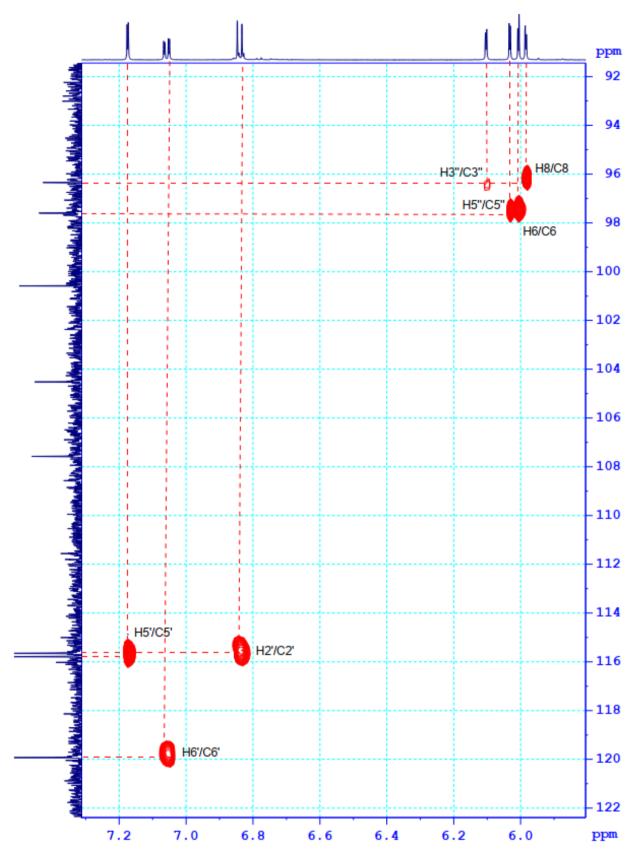


Figure S5: HSQC spectrum of compound 1 (from  $\delta_C$  122 ppm to  $\delta_C$  92 ppm and from  $\delta_H$  7.2 ppm to  $\delta_H$  6.0 ppm)

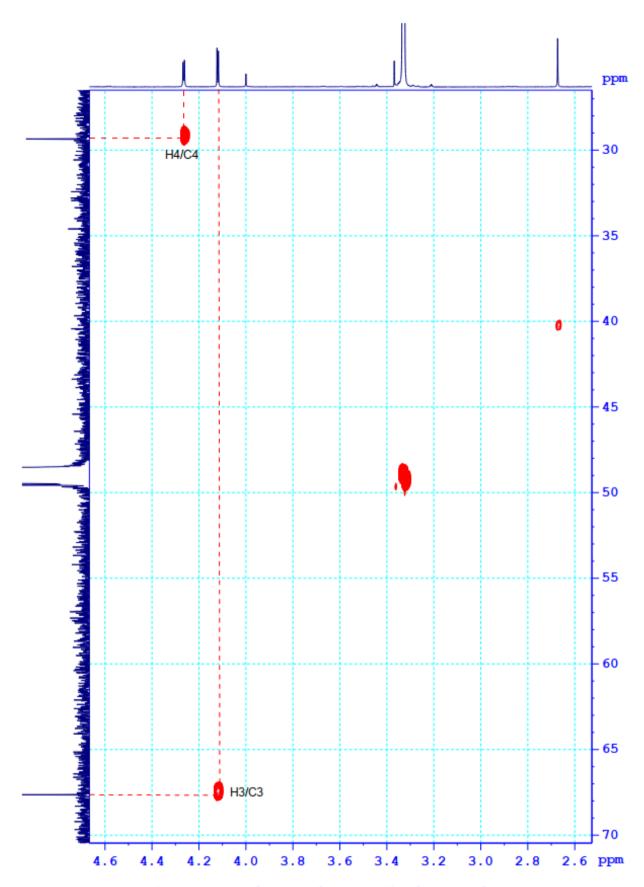


Figure S6: HSQC spectrum of compound 1 (From  $\delta_C$  30 ppm to  $\delta_C$  70 ppm and from  $\delta_H$  4.6 ppm to  $\delta_H$  2.6 ppm)

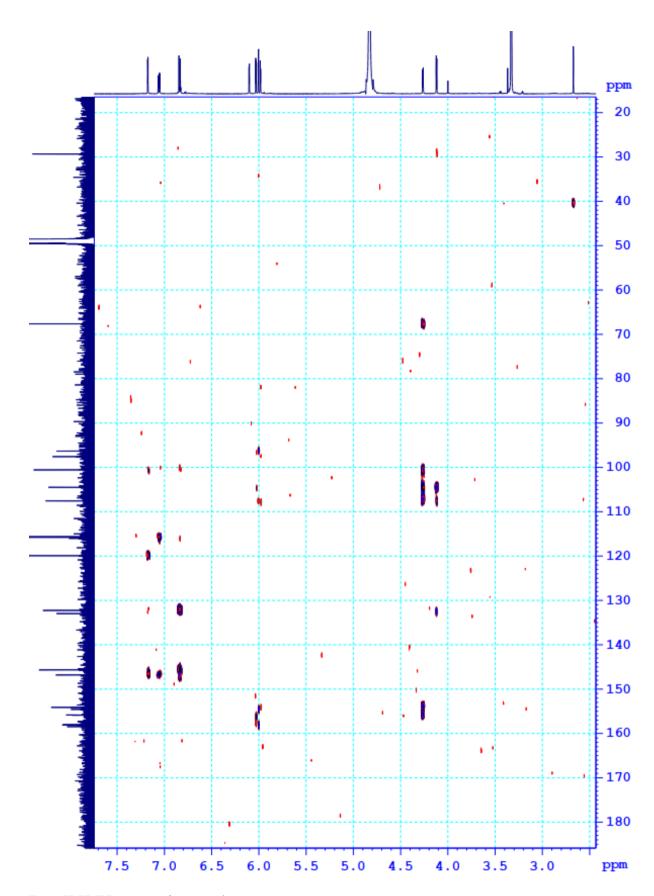


Figure S7: HMBC spectrum of compound  ${\bf 1}$ 

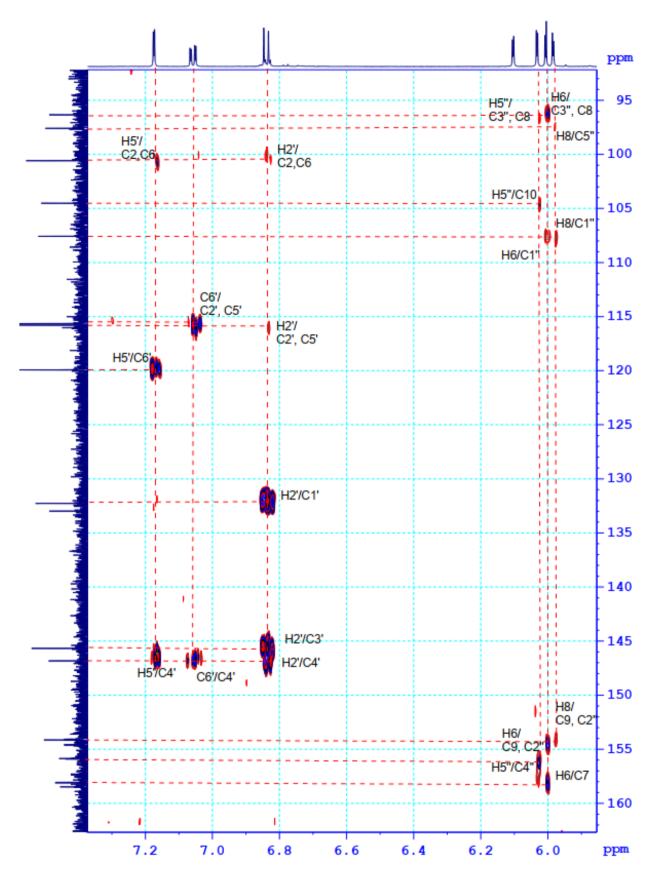


Figure S8: HMBC spectrum of compound 1 (from  $\delta_{C}$  160 ppm to  $\delta_{C}$  95 ppm and from  $\delta_{H}$  7.2 ppm to  $\delta_{H}$  6.0 ppm)

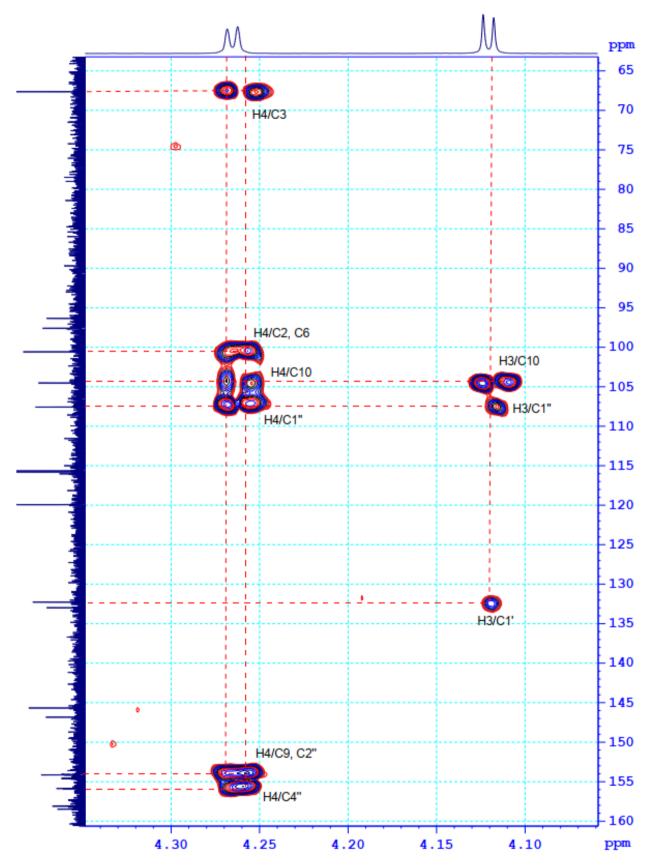


Figure S9: HMBC spectrum of compound 1 (from  $\delta_C$  160 ppm to  $\delta_C$  65 ppm and from  $\delta_H$  4.3 ppm to  $\delta_H$  4.0 ppm)

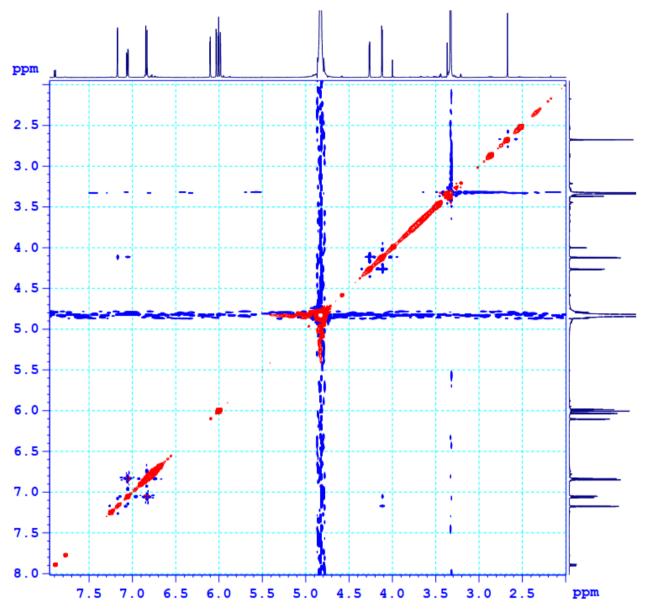


Figure S10: NOESY spectrum of compound 1

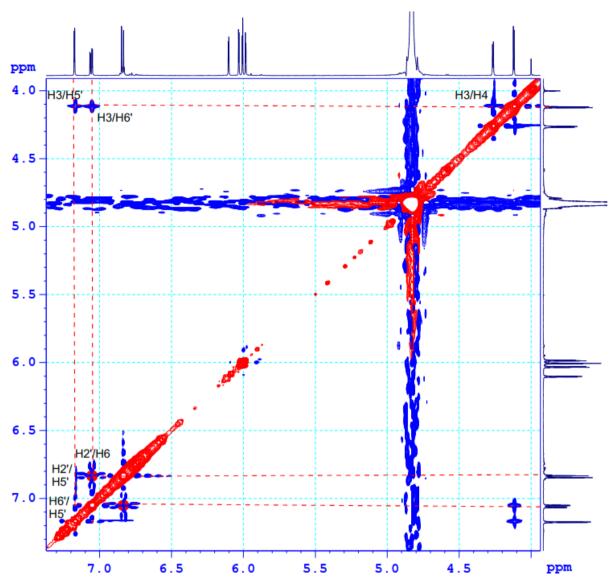


Figure S11: NOESY spectrum of compound 1 (from  $\delta_H 7.0$  ppm to  $\delta_H 4.0$  ppm)

Figure S12: Structure of compound **2** (proanthocyanidin A2)

Table S1: NMR spectral data of compound 2 (proanthocyanidin A2)

Position	δς	δн	Position	δς	δн
2	98.7	-	2'	78.5	4.89 (1H, s)
3	65.8	3.94 (1H, t, <i>J</i> = 4.8 Hz)	3'	64.4	4.09 (1H, d, J = 3.6 Hz)
4	27.7	4.32 (1H, d, J = 3.6 Hz)	4'	28.6	2.75 (1H, dd, <i>J</i> = 1.8, 16.8 Hz)
	27.7				2.60 (1H, dd, <i>J</i> = 1.8, 16.8 Hz)
4a	102.6	-	4a'	100.6	-
5	155.7	-	5'	154.8	-
6	96.2	5.81 (1H, d, J = 2.4 Hz)	6'	94.45	5.85 (1H, d, J = 2.4 Hz)
7	156.4	-	7'	150.3	-
8	94.51	5.98 (1H, s)	8'	105.2	-
8a	152.7	-	8a'	150.3	-
9	130.6	-	9'	130.2	-
10	114.7	6.74 (1H, d, J = 6.0 Hz)	10'	114.9	6.75 (1H, d, J = 6.0 Hz)
11	144.2	-	11'	144.5	-
12	145.4	-	12'	144.6	-
13	114.6	7.01 (1H, d, J = 2.4 Hz)	13'	114.4	7.04 (1H, d, J = 1.8 Hz)
14	117.7	6.86 (1H, dd, <i>J</i> = 2.4, 8.4 Hz)	14'	117.8	6.83 (1H, dd, <i>J</i> = 2.4, 8.4 Hz)

<sup>\* 150</sup>MHz in MeOD \*\* 600MHz in MeOD