SUPPLEMENTARY MATERIAL

A New (–)-5',6-dimethoxyisolariciresinol-(3'',4''-dimethoxy)-3 α -O- β -D-glucopyranoside from the Bark of *Aglaia eximia* (Meliaceae)

Julinton Sianturi¹, Desi Harneti¹, Darwati¹, Tri Mayanti¹, Unang Supratman^{1,*}, Khalijah Awang²

¹*Department of Chemistry, Faculty of Mathematics and Natural Sciences, Padjadjaran University, Jatinangor 45363, Indonesia*

²*Department of Chemistry, Faculty of Science, University of Malaya, Kuala Lumpur 59100, Malaysia*

New (–)-5',6-dimethoxyisolariciresinol-(3'',4''-dimethoxy)-3 α -O- β -D-glucopyranoside compound was isolated from the methanol extract of the bark of *A. eximia* (Meliaceae). The chemical structure of the new compound were elucidated on the basis of spectroscopic data including, UV, IR, HR-ESI-TOFMS, 1D-NMR, 2D-NMR and comparison with those related compounds previously reported.

Keywords: *Aglaia eximia*; lignan; (–)-5',6-dimethoxyisolariciresinol-(3'',4''-dimethoxy)-3 α -O- β -D-glucopyranoside; Meliaceae.

Corresponding authors. E-mail: unang.supratman@unpad.ac.id

Figure S1. Selected HMBC and H-H COSY correlations for **1**.

Figure S2. ¹H-NMR (CD₃OD, 500MHz) spectrum of compound **1**

Figure S3. HMQC spectra of compound 1

Figure S4. HMBC spectra of compound 1

Figure S5. Broad band and DEPT spectra of compound 1

Figure S6. ^1H - ^1H COSY spectra of compound **1**

Figure S7. HR-ESI-TOFMS spectra of compound 1

Table S1. ^1H (500 MHz) and ^{13}C -NMR (125 MHz) data of compound **1** in CD_3OD

Position	^1H -NMR δc (ΣH , mult, $J =$ Hz)	^{13}C -NMR δc (mult.)	HMBC
9	-	126.5 (s)	-
8	6.58 (1H, s)	107.1 (d)	C-9, C-7, C-6, C-1
7	-	147.7 (s)	-
6	-	148.7 (s)	-
5	6.41 (1H, s)	107.9 (d)	C-9, C-7, C-6, C-10
10	-	134.5 (s)	-
1	2.70 (1H, dd, 4.6, 14.9) 2.64 (1H, dd, 14.9, 15.5)	33.9 (t)	C-9, C-10, C-4, C-2a, C-3
2	1.72 (1H, m)	42.8 (d)	C-4, C-3, C-2a
2a	3.45 (1H, dd, 9.8, 3.9) 3.30 (1H, dd, 9.8, 1.9)	71.5 (t)	C-1'', C-8', C-8, C-7'
1'	-	139.4 (s)	-
2'	6.43 (1H, s)	106.9 (d)	C-1□, C-3', C-4', C-6'
3'	-	149.0 (s)	-
4'	-	139.0 (s)	-
5'	-	149.0 (s)	-
6'	6.43 (1H, s)	106.9 (d)	C-7', C-1', C-5', C-4', C-2'
4	4.41 (1H, d, 5.9)	43.3 (s)	C-8', C-9', C-2', C-6', C-1, C-6, C-1'
3	2.12 (1H, m)	46.8 (d)	C-4, C-2
3a	3.62 (1H, dd, 11.1, 2.6) 3.54 (1H, dd, 11.1, 3.2)	66.3 (t)	
1''	4.28 (1H, d, 9.8)	104.9 (d)	C-2a, C-2'', C-3''
2''	3.63 (1H, dd, 9.8, 10.5)	78.0 (d)	C-1'', C-3'', C-4''
3''	3.27 (1H, t, 10.5)	75.2 (d)	C-1'', C-2'', C-4'', C-5''
4''	3.25 (1H, m)	71.8 (d)	C-3'', C-5'', C-6''
5''	3.23 (1H, m)	78.3 (d)	C-3'', C-4'', C-6''
6''	3.88 (1H, m) 3.66 (1H, m)	62.9 (t)	C-4'', C-5''
7-OCH ₃	3.75 (3H, s)	56.9 (q)	C-7
6-OCH ₃	3.74 (3H, s)	56.9 (q)	C-6
3□,5□-OCH ₃	3.86 (6H, s)	56.7 (q)	C-3'/C-5'
3□□,4□□-OCH ₃	3.36 (6H, s)	60.3 (q)	C-3''/C-4''