SUPPLEMENTARY MATERIAL

Two new sesquiterpenes from the leaves of *Nicotiana tabacum* and their anti-tobacco mosaic virus activities

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Abstract: Two new sesquiterpenes, nicotianasesterpenes A and B (1 and 2), together with five known sesquiterpenes (3-7) were isolated from the leaves of *Nicotiana tabacum*. Their structures were determined mainly by spectroscopic methods, including extensive 1D- and 2D NMR techniques. The anti-tobacco mosaic virus (anti-TMV) activities of compounds 1-7 were evaluated. The results revealed that compound 1 exhibited high anti-TMV activities with inhibition rates of 33.6%. This rate is high than that of positive control. The other compounds also showed potential activities with inhibition rates in the range of 18.8%–28.4%, respectively.

Keywords: *Nicotiana tabacum*; sesquiterpenes; anti-tobacco mosaic virus activity
Figure S1  $^1$C NMR spectrum of nicotianasesterpene A (1)
Figure S2: $^1$H NMR spectrum of nicotianasesterpene A (1)
Figure S3 13C NMR spectrum of nicotianesesterpene B (2)
Figure S4  $^1$H NMR spectrum of nicotianasesterpene B (2)
Figure S5 Key HMBC and $^1$H-$^1$H COSY correlations of 1
| No. | 1      | 2      | 1      | 2      |
|-----|--------|--------|--------|--------|
| 1   | 120.1 s| 121.0 s|        |        |
| 2   | 136.8 s| 137.0 s|        |        |
| 3   | 117.4 d 6.55 s | 117.2 d 6.58 s |        |        |
| 4   | 145.1 s| 145.5 s|        |        |
| 5   | 144.2 s| 144.4 s|        |        |
| 6   | 118.3 d 6.92 d (8.2) | 119.0 d 7.02 d (8.2) |        |        |
| 7   | 131.7 d 7.33 d (8.2) | 129.8 d 7.38 d (8.2) |        |        |
| 8   | 124.9 s| 126.9 s|        |        |
| 9   | 158.0 s| 155.6 s|        |        |
| 10  | 138.8 d 6.36 d (10.0) | 138.0 d 6.34 d (10.0) |        |        |
| 11  | 29.0 d 3.03 m | 29.2 d 3.06 m |        |        |
| 12,13 | 24.5 q 1.15 d (6.8) | 24.3 q 1.18 d (6.8) |        |        |
| 14  | 60.0 t 4.60 s | 59.9 t 4.62 s |        |        |
| 15  | 20.6 q 2.33 s | 58.3 t 4.84 s |        |        |
| -OMe | 61.0 q 3.80 s | 61.6 q 3.78 s |        |        |