

Figure S1. The HPLC chromatograms of the bud and tender leaves extracts of *Betula platyphylla* Suk.(S1), *Salix matsudana* Koidz.(S2), *Phellodendron amurense* Rupr.(S3), *Pinus densiflora* Sieb.et Zucc.(S4) and standard solution (S0).

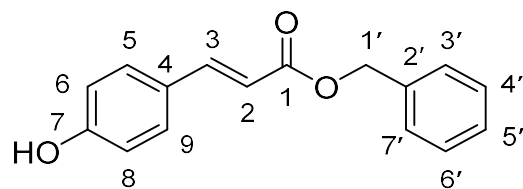


Figure S2. Structures of benzyl *p*-coumarate

Table S1. The content of common compounds in different CBM propolis.

| Samples No. | Amount (mg/g, mean \pm SD) | | | | | | | | | | | | | | | |
|-------------|------------------------------|-------------------------|-----------------|-----------------|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|-----------------------|------------------|-----------------|------------------|
| | Caffeic acid | <i>p</i> -Coumaric acid | Ferulic acid | Isoferulic acid | 3,4-Dimethoxycinnamic acid | Pinobanksin | Naringenin | Quercetin | Kaempferol | Apigenin | Pinocebrin | Benzylcaffeate | 3-Oacetyl pinobanksin | Chrysin | CAPE | Galangin |
| S1 | 6.34 \pm 0.06 | 45.23 \pm 0.47 | 5.65 \pm 0.06 | 2.19 \pm 0.01 | 1.34 \pm 0.01 | 0.65 \pm 0.01 | 0.77 \pm 0.15 | 0.96 \pm 0.25 | 0.85 \pm 0.02 | 0.74 \pm 0.03 | 54.45 \pm 0.56 | 34.3 \pm 0.37 | 2.52 \pm 0.03 | 9.50 \pm 0.1 | 1.38 \pm 0.02 | 29.09 \pm 0.32 |
| S2 | 3.19 \pm 0.04 | 19.54 \pm 0.20 | 3.33 \pm 0.04 | 1.43 \pm 0.02 | 1.41 \pm 0.02 | 3.46 \pm 0.04 | 0.80 \pm 0.01 | 0.99 \pm 0.01 | 1.13 \pm 0.01 | 1.63 \pm 0.02 | 57.12 \pm 0.69 | 21.87 \pm 0.3 | 18.22 \pm 0.23 | 14.06 \pm 0.17 | 4.86 \pm 0.06 | 24.67 \pm 0.29 |
| S3 | 4.19 \pm 0.01 | 29.95 \pm 0.13 | 4.33 \pm 0.01 | 1.72 \pm 0.01 | 1.14 \pm 0.00 | 1.14 \pm 0.00 | 0.88 \pm 0.03 | 1.13 \pm 0.05 | 0.94 \pm 0.00 | 1.17 \pm 0.01 | 42.93 \pm 0.11 | 21.53 \pm 0.08 | 5.64 \pm 0.01 | 8.88 \pm 0.03 | 1.91 \pm 0.00 | 23.46 \pm 0.08 |
| S4 | 5.54 \pm 0.08 | 31.41 \pm 0.51 | 5.5 \pm 0.08 | 2.34 \pm 0.01 | 1.45 \pm 0.02 | 1.62 \pm 0.03 | 1.04 \pm 0.02 | 1.38 \pm 0.03 | 1.31 \pm 0.01 | 1.55 \pm 0.01 | 67.00 \pm 0.96 | 29.24 \pm 0.45 | 8.69 \pm 0.13 | 11.11 \pm 0.16 | 2.56 \pm 0.04 | 26.86 \pm 0.04 |
| S5 | 4.20 \pm 0.06 | 23.38 \pm 0.29 | 3.5 \pm 0.05 | 2.04 \pm 0.04 | 3.00 \pm 0.04 | 3.87 \pm 0.06 | 0.77 \pm 0.01 | 0.96 \pm 0.01 | 1.3 \pm 0.02 | 1.71 \pm 0.03 | 52.16 \pm 0.73 | 17.53 \pm 0.4 | 16.98 \pm 0.23 | 13.83 \pm 0.19 | 4.38 \pm 0.05 | 23.19 \pm 0.03 |
| S6 | 2.80 \pm 0.01 | 18.82 \pm 0.09 | 2.67 \pm 0.00 | 0.87 \pm 0.00 | 0.71 \pm 0.01 | 6.7 \pm 0.03 | 1.13 \pm 0.10 | 1.52 \pm 0.16 | 2.31 \pm 0.01 | 1.22 \pm 0.39 | 58.55 \pm 0.03 | 9.60 \pm 0.20 | 30.32 \pm 0.05 | 18.18 \pm 0.08 | 6.98 \pm 0.05 | 26.46 \pm 0.07 |
| S7 | 4.05 \pm 0.00 | 25.8 \pm 0.06 | 4.13 \pm 0.01 | 1.78 \pm 0.01 | 1.52 \pm 0.00 | 4.00 \pm 0.37 | 4.51 \pm 0.65 | 1.31 \pm 0.25 | 1.31 \pm 0.01 | 1.34 \pm 0.03 | 63.83 \pm 0.13 | 31.06 \pm 0.03 | 15.12 \pm 0.06 | 15.15 \pm 0.02 | 6.30 \pm 0.00 | 29.59 \pm 0.02 |
| S8 | 8.03 \pm 0.03 | 30.09 \pm 0.08 | 5.24 \pm 0.02 | 3.5 \pm 0.01 | 2.82 \pm 0.02 | 6.62 \pm 0.02 | 2.94 \pm 0.02 | 1.70 \pm 0.02 | 2.40 \pm 0.01 | 1.14 \pm 0.00 | 71.14 \pm 0.22 | 32.45 \pm 0.12 | 36.28 \pm 0.11 | 21.36 \pm 0.09 | 7.34 \pm 0.03 | 32.22 \pm 0.12 |
| S9 | 4.45 \pm 0.01 | 17.2 \pm 0.04 | 3.27 \pm 0.43 | 1.43 \pm 0.00 | 1.26 \pm 0.00 | 2.96 \pm 0.13 | 3.26 \pm 0.30 | 1.63 \pm 0.09 | 1.12 \pm 0.01 | 1.28 \pm 0.01 | 49.44 \pm 0.11 | 10.85 \pm 0.07 | 16.65 \pm 0.03 | 12.46 \pm 0.02 | 3.91 \pm 0.01 | 20.02 \pm 0.03 |
| S10 | 3.59 \pm 0.02 | 31.38 \pm 0.13 | 5.09 \pm 0.02 | 1.28 \pm 0.01 | 0.71 \pm 0.00 | 0.80 \pm 0.01 | 4.78 \pm 0.02 | 0 | 0.91 \pm 0.01 | 1.02 \pm 0.00 | 54.30 \pm 0.22 | 23.23 \pm 0.1 | 2.22 \pm 0.01 | 7.60 \pm 0.03 | 1.52 \pm 0.01 | 25.12 \pm 0.09 |

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|-----|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|------------|
| S11 | 2.79±0.01 | 8.61±0.01 | 1.59±0.01 | 1.98±0.00 | 2.26±0.00 | 8.25±0.02 | 2.39±0.01 | 2.14±0.01 | 2.11±0.01 | 1.2±0.03 | 73.29±0.09 | 12.19±0.05 | 36.57±0.29 | 21.97±0.04 | 5.13±0.01 | 32.81±0.04 |
| S12 | 2.66±0.01 | 32.06±0.07 | 3.96±0.01 | 0.9±0.00 | 0.60±0.00 | 5.40±0.03 | 2.47±0.08 | 2.04±0.06 | 2.00±0.00 | 0 | 72.35±0.09 | 25.36±0.04 | 6.19±0.03 | 17.23±0.02 | 0 | 40.33±0.05 |
| S13 | 3.19±0.37 | 20.85±0.05 | 2.21±0.04 | 0.88±0.01 | 0.60±0.01 | 19.89±0.17 | 2.61±0.20 | 1.43±0.09 | 2.66±0.47 | 1.27±0.83 | 87.33±0.11 | 19.53±0.13 | 5.00±0.85 | 24.55±5.17 | 5.93±0.03 | 39.55±0.58 |
| S14 | 3.44±0.01 | 28.3±0.10 | 3.87±0.02 | 1.01±0.01 | 0.58±0.00 | 0.51±0.00 | 5.44±0.02 | 2.89±0.01 | 1.23±0.00 | 1.23±0.00 | 89.06±0.36 | 65.15±0.25 | 8.86±0.03 | 8.67±0.04 | 1.76±0.02 | 28.17±0.12 |
| S15 | 4.17±0.04 | 36.55±0.46 | 3.31±0.04 | 1.68±0.08 | 1.51±0.02 | 1.20±0.01 | 3.04±0.44 | 1.83±0.67 | 1.79±0.84 | 1.78±0.06 | 67.20±0.81 | 25.17±0.11 | 7.23±2.02 | 16.39±8.46 | 2.4±0.03 | 31.85±5.06 |
| S16 | 4.41±0.01 | 33.17±0.07 | 4.07±0.01 | 1.71±0.00 | 0.86±0.00 | 0.69±0.00 | 3.85±0.03 | 2.42±0.12 | 1.11±0.03 | 1.32±0.01 | 61.07±0.14 | 37.62±0.08 | 10.30±0.01 | 8.47±0.02 | 2.06±0.02 | 29.75±0.05 |
| S17 | 7.4±0.08 | 65.75±0.75 | 8.03±0.09 | 2.4±0.02 | 1.33±0.01 | 0.30±0.00 | 3.38±0.05 | 3.28±0.03 | 1.12±0.03 | 1.96±0.01 | 45.32±0.50 | 22.9±0.25 | 10.15±0.11 | 7.86±0.09 | 2.17±0.03 | 33.23±0.34 |
| S18 | 4.05±0.01 | 30.83±0.09 | 4.12±0.02 | 1.41±0.01 | 0.97±0.00 | 3.83±0.12 | 2.40±0.20 | 2.05±0.12 | 1.07±0.00 | 1.52±0.01 | 53.91±0.32 | 18.63±0.07 | 14.38±0.05 | 14.4±0.05 | 3.40±0.01 | 23.42±0.09 |
| S19 | 3.76±0.01 | 18.97±0.07 | 3.67±0.01 | 1.02±0.01 | 0.78±0.02 | 3.34±0.01 | 2.87±0.01 | 1.74±0.01 | 0.95±0.00 | 1.19±0.11 | 60.24±0.14 | 17.8±0.02 | 13.92±0.02 | 12.54±0.03 | 3.07±0.01 | 20.44±0.06 |
| S20 | 3.92±0.01 | 37.3±0.05 | 4.1±0.01 | 1.43±0.00 | 0.77±0.01 | 1.62±0.06 | 2.13±0.12 | 2.72±0.07 | 0.86±0.00 | 1.15±0.18 | 43.54±0.11 | 17.41±0.93 | 5.32±0.18 | 9.42±0.03 | 1.51±0.02 | 21.8±0.07 |
| S21 | 3.52±0.06 | 13.94±0.23 | 2.99±0.05 | 3.12±0.04 | 5.12±0.08 | 13.43±0.19 | 0.48±0.12 | 0.94±0.11 | 2.18±0.03 | 2.67±0.06 | 48.65±0.72 | 14.42±0.24 | 37.53±0.55 | 34.99±0.62 | 6.84±0.28 | 37.82±0.67 |