SUPPLEMENTARY MATERIAL

Structure elucidation and NMR assignments of an alkaloid from

*Ixeris chinensis* Nakai

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A new alkaloid, 2-amino-1,6-dihydro-pyridine-5-carbaldehyde (1), together with four known compounds, namely 4-hydroxybenzaldehyde (2), 4-hydroxyacetophenone (3), acetophenone-4-O-β-D-glucoside (4), 2-hydroxy-6-methoxyacetophenone-4-O-β-D-glucoside (5), were isolated from the CHCl₃ extract from *Ixeris chinensis* Nakai. The structures of 1 was elucidated by spectroscopic methods, including UV, IR, HR-ESI-MS and extensive 1D and 2D NMR techniques.

Keywords: *Ixeris chinensis* Nakai; spectroscopic methods; 2-amino-1,6-dihydro-pyridine-5-carbaldehyde
Figure S1. Selected HMBC correlations for 1.

Original spectra of new compound 1

Figure S2. $^1$H-NMR spectrum of compound 1
Figure S3. $^{13}$C-NMR spectrum of compound 1

Figure S4. HMBC spectrum of compound 1
Figure S5. HSQC spectrum of compound 1

Figure S6. DEPT spectrum of compound 1
Figure S7. COSY spectrum of compound 1

Figure S8. MS spectrum of compound 1

Table S1. $^1$H and $^{13}$C-NMR data (500MHz for $^1$H, 125MHz for $^{13}$C) for compound 1

| Compound 1 | $\delta$ (H) ($J$ in Hz) | $\delta$ (C) |
|------------|-------------------------|--------------|
| 1          | 5.59 (1H, t, 5.5)       |              |
| 2          |                         | 162.9        |
| 3          | 7.51 (1H, d, 3.5)       | 124.9        |
| 4          | 6.61 (1H, d, 3.5)       | 110.2        |
| 5          |                         | 152.2        |
| 6          | 4.51 (2H, d, 5.5)       | 56.4         |
| 7          | 9.55 (1H, s)            | 178.5        |