1a. Radical leaf blades lyrate pinnate.
   2a. Carpels and achenes markedly papillate ................................................................. 1. C. henryi
   2b. Carpels and achenes rigidly hairy ........................................................................... 2. C. omeiensis

1b. Radical leaf blades pinnate, but not lyrate so.
   3a. Radical leaf blades regularly interrupted pinnate, leaflets in 9–20 pairs, proximal ones smaller, distal ones larger; flowers 1.5–2.5 cm in diam.; carpels numerous; carpels and achenes glabrous ..................................... 3. C. longifolia
   3b. Radical leaf blades irregularly interrupted pinnate, leaflets in 4 or 5 pairs, variously sized; flowers ca. 1 cm in diam.; carpels ca. 4; carpels and achenes markedly papillate ................................................................. 4. C. oligocarpa


大头叶无尾果 da tou ye wu wei guo

Coluria henryi var. grandiflora Cardot; C. henryi var. pluriflora Cardot.

Rhizome long, slender, covered with remains of old leaves. Radical leaves: stipules ovate, both surfaces pilose or ciliate, margin entire or 1- or 2-serrate; petiole 1–2.5 cm, densely yellow-brown villous; leaf blade lyrate pinnatisect, 5–18 cm; rachis longitudinally ribbed, densely yellow-brown villous; leaflets in 4–10 pairs, laxly arranged at intervals of up to 1 cm; terminal leaflet ovate, broadly so, or oblong-ovate, 3–7 × 1.5–6 cm, yellow-brown villous, base cordate, margin obtusely serrate, apex rounded; lateral leaflets sessile, ovate or oblong-ovate, 2–16 × 0.5–11 mm, densely villous, base oblique, margin triangular dentate, apex acute; cauline leaves: leaf blade ovate, 1–1.5 cm, margin entire or 3-lobed. Flowering stems radical, ascending, 6–30 cm tall, spreading pilose, 1–4-flowered; bracts ovate or oblong, ca. 1.5 cm, both surfaces pilose, margin serrate. Flowers 2–2.5 cm in diam. Hypanthium obconic, 3–5 mm, densely villous. Sepals triangular-ovate, ca. 5 mm, abaxially pilose, adaxially glabrous or subpilose, apex acute; epicalyx segments minute, lanceolate, 1–2 mm, abaxially pilose, apex acute. Petals yellow or white, obovate, 5–10 mm, glabrous, base shortly clawed, apex emarginate. Filaments 5–6 mm. Carpels numerous; ovary ovoid; style erect. Achenes brown, ovoid or obovoid, 1–1.5 cm, papillate. Fl. Apr–Jun, fr. May–Jul.

1200–2400 m. Guizou, Shaanxi, Sichuan.

This species is similar to Coluria henryi, but differs in having the ovary hispidulous or hairy (vs. papillate).

1a. Petals yellow; ovary and style base hispidulous ................................................... 2a. var. omeiensis
1b. Petals white or yellow; ovary hairy, style base glabrous ................................. 2b. var. nanzhengensis

2a. Coluria omeiensis var. omeiensis

峨眉无尾果(原变种) e mei wu wei guo (yuan bian zhong)


About 2400 m. C Sichuan (Emei Shan).


光柱无尾果 guang zhu wu wei guo

Flowers white or yellow. Ovary hairy; style base glabrous. Fl. Apr–May.

- 1200–2300 m. Guizhou, Shaanxi, Sichuan.


无尾果 wu wei guo

*Coluria elegans* Cardot; *C. elegans* var. *imbricata* Cardot; *C. longifolia* f. *uniflora* T. C. Ku; *C. purdomii* (N. E. Brown) W. E. Evans; *Geum elatum* Wallich ex G. Don var. *humile* Franchet (1890), not (Royle) J. D. Hooker (1878); *Potentilla purdomii* N. E. Brown.

Radical leaves: stipules ovate, both surfaces pilose or margin ciliate, margin entire or 1- or 2-serrate; petiole 1–3 cm, sparsely villous, base decurrent, membranous; leaf blade interrupted pinnate, 5–10 cm, with 9–20 pairs of leaflets; rachis sulcate, villous; leaflets sessile, proximal ones ovate or oblong, 1–3 × 0.5–1 mm, base oblique, margin entire or obtusely crenate, ciliate; distal leaflets broadly ovate to suborbicular, 0.5–1.5 cm × 3–8 mm, base oblique, margin sharply serrate, yellow ciliate, apex rounded or acute; cauline leaves 1–4, broadly linear, 3-lobed or pinnately lobed, 1–1.5 cm. Flowering stems erect, branched distally, 4–20 cm tall, pubescent; inflorescence cymose, (1 or)2–4-flowered; bracts ovate-lanceolate, 3–4 mm, long ciliate. Flowers 1.5–2.5 cm in diam.; pedicel 1–2.5 cm, densely pubescent. Hypanthium campanulate, ca. 2 mm, together with sepals abaxially densely pubescent and villous. Sepals triangular-ovate, 3–4 mm, apex acute; epicalyx segments oblong, ca. 2 mm, villous and ciliate, apex rounded. Petals yellow, obovate or obcordate, 5–7 mm, glabrous, apex emarginate. Stamens 40–60; filaments persistent, shorter than petals, glabrous, base dilated. Carpels many; ovary cylindric, glabrous; style filiform, glabrous. Achenes black-brown, long globose, ca. 2 mm, glabrous. Fl. Jun–Jul, fr. Aug–Oct.

- Alpine meadows; 2700–4600 m. Gansu, Qinghai, Sichuan, Xizang, Yunnan.

This species is used medicinally.


汶川无尾果 wen chuan wu wei guo


Rhizome covered with remains of old leaves. Radical leaves few; stipules ovate, tiny, margin long ciliate, apex rounded; petiole 1–2 cm, spreading villous; leaf blade interrupted pinnate, 5–10 cm; leaflets in 4–6 pairs, laxly arranged, sessile, obovate-flabellate, nearly 3-lobed, 0.6–1.2 × 0.5–1.5 cm, terminal one largest, lateral ones variously sized, both surfaces and margin densely appressed villous; lobes broadly cuneate at base, margin irregularly serrate, apex rounded; cauline leaves ca. 3, sessile, oblong-ovate, 3-lobed, 1–1.5 cm × 4–5 mm. Flowering stems 2 or 3, erect, branched distally, 15–30 cm tall, pubescent; bracts ovate-lanceolate, 3–5 mm, pilose, margin sev-
villous. Achenes brown, ovoid or obovoid, 2–3 mm, densely papillate. Fl. and fr. Apr.

- Ravines, grassy places. Sichuan.