

#### 44. BHUTANTHERA Renz, Edinburgh J. Bot. 58: 99. 2001.

高山兰属 gao shan lan shu

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Herbs, terrestrial, small, slender to stout. Tubers subglobose to ovoid, fleshy, neck with a few filiform roots. Stem erect, short, covered with tubular sheaths and sheathing leaf bases, glabrous. Leaves 2 or more, subopposite or clustered toward apex of stem, ovate, elliptic, or lanceolate, base tapering into amplexicaul sheath. Inflorescence terminal, racemose, 1–20-flowered, glabrous. Flowers resupinate; ovary twisted, fusiform to obovoid. Sepals free, similar. Petals usually smaller than sepals; lip 3-lobed though lateral lobes sometimes reduced and obscure, spurred at base; spur conic to cylindric. Column short, stout; anther with distinct connective and 2 divergent locules; stigma 2-lobed, conjoined, pulvinate; rostellum with 2 distinct arms; pollinia 2, granular-farinaceous, sectile, each attached by a short caudicle to a small naked viscidium; rostellum relatively large.

Five species: all found in the alpine zone of the E Himalayas; one species in China.

*Bhutanthera albomarginata* (King & Pantling) Renz (Edinburgh J. Bot. 58: 101. 2001; *Habenaria albomarginata* King & Pantling, Ann. Roy. Bot. Gard. Calcutta 8: 322. 1898) has been noted from Xizang (Press et al., Annot. Checkl. Fl. Pl. Nepal, 217. 2000). However, the present authors found no relevant specimens and therefore could not substantiate the occurrence of this species in China.

**1. *Bhutanthera alpina*** (Handel-Mazzetti) Renz, Edinburgh J. Bot. 58: 102. 2001.

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*Habenaria alpina* Handel-Mazzetti, Symb. Sin. 7: 1336. 1936; *Peristylus alpinus* (Handel-Mazzetti) K. Y. Lang.

Plants slender, 4–7 cm tall. Tubers subglobose, to ca. 5 mm in diam. Stem with 1–3 tubular sheaths at base, 2-leaved. Leaves subopposite, elliptic, elliptic-lanceolate, or obovate, 1–2.5 × 0.5–1 cm, apex acute to obtuse. Inflorescence 1–5-flowered; peduncle ridged, 3–5 cm, free of leaf bases and visible beyond stem apex; floral bracts triangular, very small. Flowers suberect, green; sepals and petals tinged white along apical

margin; pedicel and ovary fusiform, 2–3 mm, slender. Dorsal sepal erect, broadly ovate, 2–3 × 1.5–2 mm, apex obtuse to subrounded; lateral sepals spreading, ovate, oblique, 3–3.5 × 2–2.5 mm, apex acute. Petals loosely connivent with dorsal sepal, erect, broadly ovate, 1–1.5 × 0.7–1 mm, fleshy, apex obtuse; lip spreading, ovate-lanceolate, 1–1.5 × ca. 0.5 mm, fleshy, 3-lobed below middle; lateral lobes orbicular-ovate, very small, apex obtuse; mid-lobe ligulate-lanceolate, 0.8–1 mm, apex acute; spur cylindric, 2–3 mm, apex obtuse. Column ca. 1 mm. Fl. Jul–Aug.

Damp alpine meadows; 4200–4300 m. SE Xizang [Bhutan, India (Sikkim)].

