

Pterostylis alobula

COMMON NAME

greenhood

SYNONYMS

Pterostylis trullifolia var. *alobula* Hatch; *Pterostylis crypta* Nicholls
Diplodium alobulum (Hatch) D.L.Jones, Molloy et M.A.Clem.

FAMILY

Orchidaceae

AUTHORITY

Pterostylis alobula (Hatch) L.B.Moore

FLORA CATEGORY

Vascular – Native

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Orchids

NVS CODE

DIPALO

CHROMOSOME NUMBER

2n = c.50

CURRENT CONSERVATION STATUS

2017 | Not Threatened

PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

DISTRIBUTION

Endemic. New Zealand: Manawatāwhi / Three Kings Islands, Poor Knights Islands, North Island, South Island (in the east as far south as South Canterbury and the lower Waitaki Valley, and in the west as far south as Cape Foulwind), Chatham Islands.

HABITAT

Coastal to montane (up to 1100 m a.s.l.). Usually on the forest floor in sparse leaf litter, open clay pans under scrub or amongst mosses in semi-shaded successional forest. Occasional invades rough pasture and lawns bordering forest remnants. Often growing with *Pterostylis trullifolia*.



Stokes Valley, Lower Hutt. Photographer: Jeremy R. Rolfe, Date taken: 14/07/2001, Licence: CC BY.



DETAILED DESCRIPTION

Terrestrial, colony forming, perennial herb. Plants at flowering up to 150 mm tall. **Stem** green or reddish-green, slender, terete, smooth; internodes rarely > leaves. **Petiolate leaves** in separate loose rosette or more or less loosely spaced up the lower part of flowering stem; petiole up to 10 mm long, initially distinct soon merging into leaf lamina on lower cauline leaves; leaf lamina 5–15 × 4–15 mm, dark green or green, broad-ovate, orbicular-cordate to trowel-shaped, apex acute to subacute, upper leaf surface smooth. **Cauline leaves** 2–6, mostly all sessile, 5–25 × 3–6 mm, dark green to green, linear to narrow-lanceolate or narrow-elliptic, uppermost slightly overtopping ovary. **Flower** 1–(2) erect, pale green and white striped. **Dorsal sepal** 20–25 mm tall, apex acuminate, usually horizontal. **Lateral sepals** diverging at a wide angle to form a V shape when viewed from the front, sinus smoothly rounded and not jugate in side view, tips long-caudate and much overtopping galea. **Petals** almost as long as dorsal sepal, with the exposed marginal strip of medium width, and often nearly horizontal. **Labellum** arched and protruding, basal portion lanceolate, gradually tapering to mid-length, then abruptly contracted; margins recurved such that distal third is linear in outline and deeply channelled beneath, apex bluntly truncate. **Column** shorter than labellum; stigma elliptic, slightly prominent.

MANAAKI WHENUA ONLINE INTERACTIVE KEY

Key to native orchids of New Zealand

SIMILAR TAXA

Most often confused with *Pterostylis trullifolia*, with which it often grows. From that species it is easily distinguished by the presence of loose rosettes, or their complete absence, and that the rosette leaves have smooth rather than embossed surfaces. The flowers of *P. alobula* are bigger and usually paler green coloured than *P. trullifolia*. The lateral sepals when in side view are smooth and rounded, lacking the jugate shape typical of *P. alveata*, *P. brumalis*, and *P. trullifolia*.

FLOWERING

March–November

FLOWER COLOURS

Green, White

FRUITING

May–January

LIFE CYCLE

Minute seeds are wind dispersed (Thorsen et al., 2009).

PROPAGATION TECHNIQUE

Difficult—should not be removed from the wild.

ETYMOLOGY

pterostylis: Winged column

WHERE TO BUY

Not commercially available

TAXONOMIC NOTES

Jane et al. (2010) following a thorough rDNA (ITS) based analysis of the segregate genera erected for *Pterostylis* R.Br. by Szlachekto (2001) and Jones et al. (2002) found no support to continue their recognition. This view is followed here.

ATTRIBUTION

Description adapted from Moore and Edgar (1970)

REFERENCES AND FURTHER READING

- Janes JK, Duretto MF. 2010. A new classification for subtribe Pterostylidinae (Orchidaceae), reaffirming *Pterostylis* in the broad sense. *Australian Systematic Botany* 23: 260–269. <https://doi.org/10.1071/SB09052>.
- Jones DL, Clements MA, Molloy BPJ. 2002. A Synopsis of the Subtribe *Pterostylidinae*. *Australian Orchid Research* 4: 129–146.
- Moore LB, Edgar E. 1970. Flora of New Zealand, Volume II. Indigenous Tracheophyta: Monocotyledones except Gramineae. Government Printer, Wellington, NZ. 354 p.
- Szlachekto, D.L. 2001: Genera et Species Orchidalium 1. *Polish Botanical Journal* 46(1): 11–26.
- Thorsen MJ, Dickinson KJM, Seddon PJ. 2009. Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 11: 285–309. <https://doi.org/10.1016/j.ppees.2009.06.001>.

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/pterostylis-alobula/>