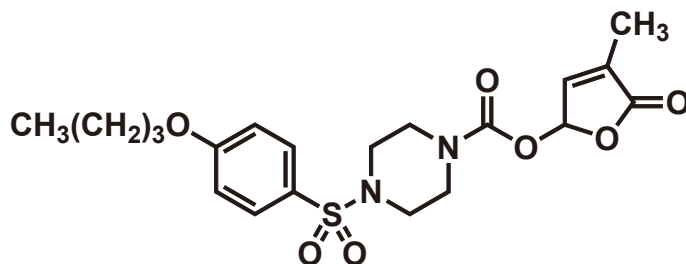
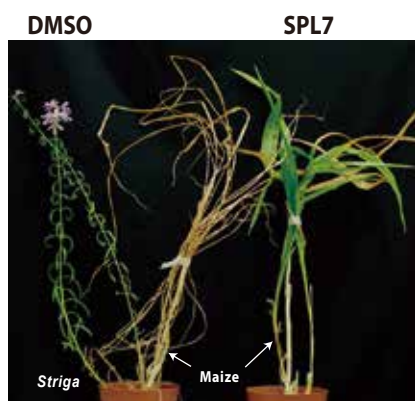


Strigolactone Mimic Leading to Withering of the Parasitic Plant *Striga*



Sphynolactone-7
5mg / 25mg [P2745]

Seeds of the root parasitic weed *Striga*, which is dormant in soil, germinate in response to strigolactone secreted from the roots of the host plant. Sphynolactone-7 [P2745] is a strigolactone mimic developed by Designated Associate Prof. Yuichiro Tsuchiya *et al.* at Nagoya University, and it is possible to germinate and wither *Striga* in soil with absent of a host as a nutrient source.¹⁾ The activity of Sphynolactone-7 against germination is extremely high, but its action as a plant hormone on plants is very weak, so it is expected to be used as a revolutionary control method for *Striga*.



When maizes were cocultivated with *Striga* seeds for three months in Sphynolactone-7 (SPL7) treated soil or not treated (left) soil, maize in soil SPL7 treated soil grew up without being parasitized by *Striga*.



Unlike the artificial strigolactone GR24, branching was not suppressed when Sphynolactone-7 (SPL7) was applied to strigolactone biosynthesis mutant of *Arabidopsis thaliana*, *max4-1*.

Image data and every kind of information have been provided by Designated Associate Prof. Yuichiro Tsuchiya at Nagoya University.

Reference 1) D. Uruguchi, Y. Tsuchiya, *et al.*, *Science* 2018, 362, 1301. <https://doi.org/10.1126/science.aau5445>

Related Product

Yoshimulactone Green (YLG)

1mg / 10mg [E1238]

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