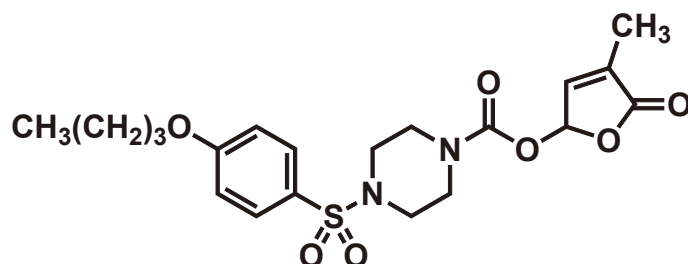


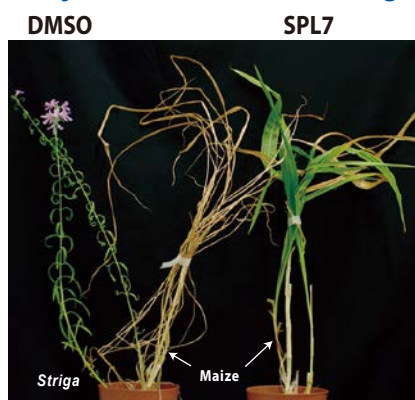
# Strigolactone Mimic Leading to Withering of the Parasitic Plant *Striga*



## 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.<sup>1)</sup> 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, K. Kuwata, Y. Hijikata, R. Yamaguchi, H. Imaizumi, S. Am, C. Rakers, N. Mori, K. Akiyama, S. Irle, P. McCourt, T. Kinoshita, T. Ooi, Y. Tsuchiya, *Science* **2018**, 362, 1301.

## Related Product Yoshimulactone Green (YLG)

1mg / 10mg [E1238]

### Ordering and Customer Service

#### TCI AMERICA

Tel : 800-423-8616 / 503-283-1681  
Fax : 888-520-1075 / 503-283-1987  
E-mail : Sales-US@TCIchemicals.com

#### TCI EUROPE N.V.

Tel : +32 (0)3 735 07 00  
Fax : +32 (0)3 735 07 01  
E-mail : Sales-EU@TCIchemicals.com

#### TCI Deutschland GmbH

Tel : +49 (0)6196 64053-00  
Fax : +49 (0)6196 64053-01  
E-mail : Sales-DE@TCIchemicals.com

#### Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 784560  
Fax : +44 (0)1865 784561  
E-mail : Sales-UK@TCIchemicals.com

#### TCI Chemicals (India) Pvt. Ltd.

Tel : 1800 425 7889 / 044-2262 0909  
Fax : 044-2262 8902  
E-mail : Sales-IN@TCIchemicals.com

#### 梯希爱(上海)化成工业发展有限公司

Tel : 800-988-0390 / 021-67121386  
Fax : 021-6712-1385  
E-mail : Sales-CN@TCIchemicals.com

#### TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878  
Fax : +81 (0)3-5640-8902  
E-mail : globalbusiness@TCIchemicals.com

Availability, price or specification of the listed products are subject to change without prior notice. Reproduction forbidden without the prior written consent of Tokyo Chemical Industry Co., Ltd.