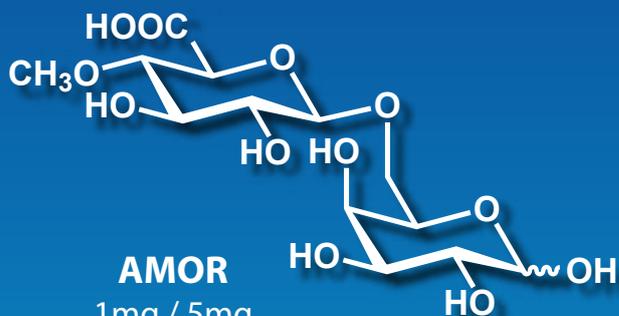


# Glyco-enhancer of Plant Fertilization

## AMOR



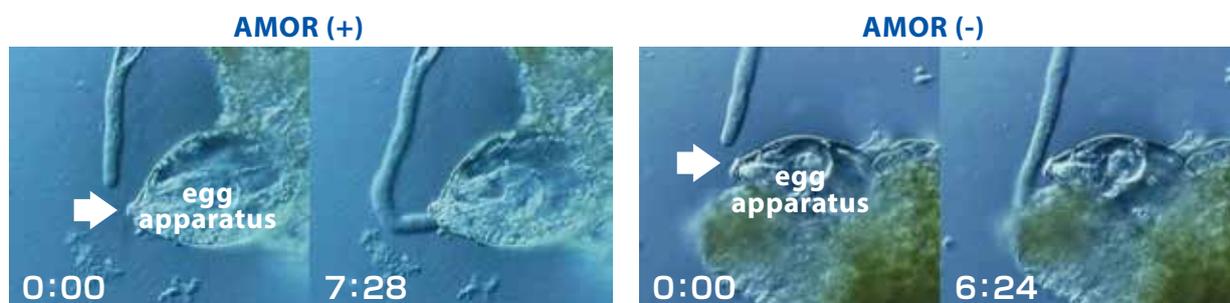
**AMOR**  
1mg / 5mg  
[M3044]

### Advantages

- Terminal disaccharide structure of arabinogalactan
- Pistil-derived sugar chain which enhances fertilizing capacity of the pollen tube
- Enhances the activity and efficiency of plant fertilization
- Prepared by chemical synthesis

### Overview

In plants, "pollen tube attractants" are essential for the pollen tube to reach the ovule. However, the mechanism for how pollen tubes respond to the attractant has not been elucidated. It has however, been hypothesized that the pistil secretes various activators to render the pollen tube fertile. Prof. Higashiyama and Dr. Mizukami at ITbM (Institute of Transformative Bio-Molecules, Nagoya University) and their colleagues have recently discovered a sugar chain involved in this bio-function using *Torenia*, and named it "AMOR".<sup>1)</sup>



AMOR (**A**ctivation **M**olecule for **R**esponse-capability) features the sugar chain arabinogalactan which is uniquely found in plant cell walls. The terminal disaccharide structure, methyl-glucuronic acid and galactose beta binding structure (GlcA[4Me]β(1-6)Gal), is important in the plant cell-to-cell communication. Additionally, the AMOR disaccharide structure exists in various organs in plants. TCI has recently developed AMOR production technology through the chemical synthesis of these important glycans.

**Reference** 1) A. G. Mizukami, T. Higashiyama, *et al.*, *Curr. Biol.* **2016**, 26, 1091. <https://doi.org/10.1016/j.cub.2016.02.040>

This product has been commercialized under the instruction of Prof. Tetsuya Higashiyama.

### 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 78 45 60  
E-mail : Sales-UK@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 (India) Pvt. Ltd.

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

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

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

• Chemicals itemized in this brochure are for research and testing use only. Please avoid use other than by chemically knowledgeable professionals. • Information such as listed products and its specifications and so on are subject to change without prior notice. • The contents may not be reproduced or duplicated in whole or in part without permission of Tokyo Chemical Industry Co., Ltd.