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Development of a novel plant activator for rice diseases, tiadinil

Kenji Tsubata¹⁾, Kiyoshi Kuroda¹⁾, Yoshinobu Yamamoto²⁾ and Noriaki Yasokawa¹⁾

1) Research Center, Nihon Nohyaku Co., Ltd.

2) R&D Strategy Department, Research & Development Division, Nihon Nohyaku Co. Ltd.

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Abstract:

Tiadinil is a novel systemic fungicide for rice diseases discovered and developed by Nihon Nohyaku Co., Ltd. The compound is characterized by a unique heterocyclic moiety, 1,2,3-thiadiazole, and a unique mode of action of inducing the plant defense mechanism against a pathogen. The lead compound was found in the synthesis research of 1,2,3-thiadiazole chemistry with the appropriate screening system. Both application methods, nursery box and into-water applications, can be used in rice cultivation. It shows excellent activity against rice blast and also exhibits activity against some rice bacterial diseases. Tiadinil has a favorable toxicological, eco-toxicological and kinetic profile. © Pesticide Science Society of Japan

Keywords:

tiadinil, plant activator, rice blast fungicide, 1,2,3-thiadiazole, nursery box application, into-water application

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