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[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

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[\[PDF \(40K\)\]](#) [\[References\]](#)

Development of a novel lepidopteran insect control agent, chromafenozide

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Abstract:

Chromafenozide is a novel dibenzoylhydrazine insecticide that was developed in the collaborative research project between Nippon Kayaku Co., Ltd., and Sankyo Co., Ltd., and is categorized to be an insect hormone-ecdysone agonist. Two formulations of chromafenozide and one combination formulation with silafluofen are available in Japan under the trade names of MATRIC[®] FL, MATRIC[®] DL and MATRICJOKER[®] DL, respectively. Chromafenozide is found to be significantly potent against various lepidopterous insects, but at the same time almost non-toxic to non-lepidopterous species, including pollinators, predators and parasitoids. As chromafenozide has a low toxicity profile in mammals and non-target organisms described above, and has minimum impact on the environment, it would be an ideal agent for integrated pest management (IPM). © Pesticide Science Society of Japan

Keywords:

chromafenozide, 20-hydroxyecdysone, ecdysone agonist, insect growth regulator, integrated pest management, ANS-118



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