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Effects of Pyridalyl on ATP Concentrations in Cultured Sf9 Cells

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Abstract:

The effects of pyridalyl and various cytotoxic substances on ATP levels in cultured Sf9 cells were compared. Levels decreased markedly after treatment with the mitochondrial respiration disruptors acequinocyl (10 μ M), chlorfenapyr (1.0–10 μ M), fenpyroximate (0.01–1.0 μ M), rotenone (0.1–10 μ M), 2-chlorocarbonylcyanide phenylhydrazine (0.1–1.0 μ M) and oligomycin (0.1–10 μ M), but increased after treatment with 10 μ M of anisomycin, a protein synthesis inhibitor. An RNA synthesis inhibitor, 5-fluorouracil (0.1–10 μ M), did not have any effect. Pyridalyl (0.1–10 μ M) reduced the ATP content of the cells; however, the rate of the decrease was not rapid. © Pesticide Science Society of Japan

Keywords:

pyridalyl, Sf9, cytotoxicity, ATP

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