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Pharmacological evaluation of sedative and hypnotic activity of ethyl *p*-methoxycinnamate and *n*-hydroxyethyl-*p*-cinnamamide

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Ethyl *p*-methoxycinnamate (**1**) was found as a major isolated compound from the rhizome of *Kaempferia galanga*. This compound has been reported to have various biological activities such as mosquito repellent and larvicidal, anti-tuberculosis, sedative, anticancer, analgesic and anti-inflammatory and hypo pigmentary. In this research, we have evaluated the sedative and hypnotic activity of **1** and its amide derivative, *N*-hydroxyethyl-*p*-cinnamamide (**2**). The method was carried out by evaluating significant sedative and hypnotic effect of **1** and **2** at the doses of 100, 200 and 400 mg/kg (by oral route), compared to reference substance diazepam in hole board and thiopental-induced sleeping time methods. In conclusion, compound **1** has **2** has a potential sedative and hypnotic activity, whereas compound **1** was significantly different to the negative control ($p \leq 0.05$).

Biography

Nurmeilis has completed her Doctoral Studies at Universitas of Indonesia with majoring of Pharmacy and working as a Lecturer in Pharmacy Department, Faculty of Medicine and Health Sciences, Syarif Hidayatullah State Islamic University and now as a Head of program study of Pharmacy.

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