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## A New Antidiabetic Compound 8,9-dimethoxy Ellagic Acid from Sasaladaan (*Peperomia pellucida* L. Kunth)

Yasmiwar Susilawati<sup>1\*</sup>, Ricky Nugraha<sup>3</sup>, Jegatheswaran Krishnan<sup>1</sup>, Ahmad Muhtadi<sup>2</sup>,  
Supriyatna Sutardjo<sup>1</sup> and Unang Supratman<sup>3</sup>,

<sup>1</sup>Department of Biological Pharmacy, Faculty of Pharmacy, Universitas Padjadjaran, Jl. Raya Bandung-Sumedang Km. 21 Jatinagor 45363, Sumedang, Indonesia

<sup>2</sup>Department of Pharmacology and Toxicology, Faculty of Pharmacy, Universitas Padjadjaran, Jl. Raya Bandung-Sumedang Km. 21 Jatinagor 45363 Sumedang, Indonesia

<sup>3</sup>Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Jl. Raya Bandung-Sumedang Km. 21 Jatinagor 45363 Sumedang, Indonesia

### ABSTRACT

*Peperomia pellucida* (L.) Kunth.) is a annual herb belongs to Piperaceae family and also know as sasaladaan or suruhan in Indonesia. These herbs has been known empirically used as blood sugar reducer. Previous research has proved that ethanol extract and ethyl acetat fraction have a good potential as antidiabetics. This study was conducted to obtain antidiabetic compounds of *P. pellucida* using chromatographic techniques guided by in vivo activity test. A new antidiabetic compound, 8,9-dimethoxy ellagic acid (**1**), was isolated from ethyl acetat fraction of *P. pellucida*. The chemical structure of **1** was determined by spectroscopic methods and comparison with those related compound previously reported. The 8,9-dimethoxy ellagic acid at dose of 100 mg/kg body weight produced significant antidiabetic activity in alloxan-induced hyperglycemic Swiss Webster mice.

**Keywords:** Antidiabetic, 8,9-dimethoxy-ellagic acid, *Peperomia pellucida*, Piperaceae.

\*Corresponding author