

## Submission 4728

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**ID: 4728    Kinetics of alpha-glucosidase inhibitory activity and phytochemical analysis of Piper crocatum Ruiz & Pav. leaves ethanol extract**



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**Dr Waras Nurcholis, MSi**

$\alpha$ -Glucosidase is a enzymes group that playing important roles in digestion of polysaccharide. Inhibitor of  $\alpha$ -glucosidase can decrease polysaccharide digestion rate and therefore plays significant function in prevent development of diabetes (type 2). *Piper crocatum* Ruiz & Pav. is an essential herb applied traditionally in Indonesia to treat diabetes mellitus. This work evaluated  $\alpha$ -glucosidase inhibitory activity of *P. crocatum* leaves ethanol extract. Phytochemical component of the extract was also analyzed. The  $\alpha$ -glucosidase inhibitory activity of the *P. crocatum* leaves ethanol extract was examined by reacting its different concentrations with  $\alpha$ -glucosidase and *p*-nitrophenyl glucopyranoside. Kinetics of the  $\alpha$ -glucosidase inhibition were determined using Lineweaver-Burke plot. Phytochemical in extract was determined using GC-MS. Ethanol extract of *P. crocatum* leaves exhibited moderate  $\alpha$ -glucosidase inhibitory activity compared with acarbose. Phytochemical analyses showed the presence of stilbene, linolenic acid, phenol, phytosteroid, and  $\alpha$ -tocopherol. The competitive action of *P. crocatum* leaves ethanol extract is due to its inhibitory effects on  $\alpha$ -glucosidase. The stilbene and phenol compounds indicated responsible for anti-diabetic activity from *P. crocatum* leaves ethanol extract.

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1. Two affiliation should not be provide for one author. (**Maria Bintang<sup>1,3</sup>, Waras Nurcholis<sup>3,4</sup>**)

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 Dr Waras Nurcholis, MSi

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