Gmail Eko Suhartono <ekoantioxidant@gmail.com>

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On Thu, Mar 17, 2016 at 3:16 PM, ekoantioxidant@gmail.com <ekoantioxidant@gmail.com> wrote:

1. Name of Corresponding Author

Eko Suhartono

2. Email of Corresponding Author

ekoantioxidant@gmail.com

Institute of Affiliation of Corresponding Author

Department of Medical Chemistry/Biochemistry, Faculty of Medicine, University of Lambung Mangkurat, South Kalimantan, Indonesia

3. Phone/Mobile Number

+6281251126368

4. Address

Jl. Ahmnad Yani Km. 36,5
Banjarbaru, South Kalimantan 70712
Indonesia
Map It

5. Title of Manuscript

THE INHIBITION EFFECT OF KELAKAI (STENOCHLAENA PALUSTRIS) EXTRACT ON CADMIUM-INDUCED GLYCATION AND FRUCTATION IN VITRO

6. Abstract

The objectives of this study were to determine the inhibition effect of kelakai (Stenochlena palustris) extract against cadmium (Cd)-induced glycation and fructation in vitro. The inhibiton effect of kelakai extract was determined by assessing the concentration of methylglyoxal (MG), Advanced Oxidation Protein Products (AOPPs), and carbonyl compound (CC). In this present study, glycation and fructation reaction were made using bovine serum albumin (BSA) as a protein and glucose or fructose as a reducing sugar and Cd as a catalyst. Each model then divided into 5 groups consisting of: BSA + glucose or fructose as group 1 (T1); BSA + glucose or fructose + Cd as group 2 (T2); BSA + glucose or fructose + Cd + 5 mg/l of kelakai extract as group 3 (T3); BSA + glucose or fructose + Cd + 10 mg/l of kelakai extract as group 4 (T4); and BSA + glucose or fructose + Cd + 15 mg/l of kelakai extract as group 5 (T5). Results of this present study shows that Cd could increased the rate constant of MG, AOPPs, and CC formation both in glycation or fructation. Administration of plant extract could decreased the rate constant of MG, AOPPs, and CC formation induced by Cd both in glycation and fructation. The results also shows that the rate constant of the formation of MG, AOPPs, and CC in fructation were higher than glycation. In conclusions, the resuts of this present study indicated that Cd could increased the rate constant of MG, AOPPs, and CC formation while the administration of kelakai extract could decreased the rate constant. It suggest that kelakai extract have inhibitory effect against Cd-induced glycation and fructation reaction in vitro.

7. Keywords (2-10)

Key Words: Cadmium, Fructation, Glycation, Stenochlaena palustris

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Your manuscript number 03192016PCRD bearing with title "THE INHIBITION EFFECT OF KELAKAI (STENOCHLAENA PALUSTRIS) EXTRACT ON CADMIUM-INDUCED GLYCATION AND FRUCTATION IN VITRO" has been provisionally accepted after minor modifications. It may be published in the upcoming issue of the journal subject to deposition of publication charges USD50.
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