

ABSTRAK

AKTIVITAS EKSTRAK ETANOL DAUN DADAP SEREP (*Erythrina Subumbrans* [Hassk.] Merr.) TERHADAP KADAR PROFIL LIPID TIKUS WISTAR JANTAN YANG DIINDUKSI PAKAN TINGGI LEMAK DAN KARBOHIDRAT

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Dislipidemia merupakan kondisi dimana meningkatnya kadar kolesterol total, *Low Density Lipoprotein* (LDL), dan trigliserida serta menurunnya kadar *High Density Lipoprotein* (HDL). Salah satu tanaman sebagai obat herbal yang diduga memiliki aktivitas antidislipidemia adalah dadap serep (*Erythrina subumbrans* [Hassk.] Merr.) atau dikenal sebagai 'ThongLang Pa' di Thailand yang telah dilaporkan menjadi sumber sejumlah besar flavonoid. Flavonoid mampu menurunkan sintesis kolesterol dan kadar trigliserida serum dengan cara bekerja sebagai inhibitor enzim HMG-CoA reduktase. Tujuan penelitian ini adalah untuk mengetahui bagaimana efek pemberian ekstrak etanol daun dadap serep (*Erythrina subumbrans* [Hassk.] Merr.) terhadap kadar profil lipid tikus wistar jantan yang diinduksi pakan tinggi lemak dan karbohidrat. Penelitian ini menggunakan 25 ekor tikus wistar jantan yang dikelompokkan menjadi 5 kelompok, dengan masing-masing kelompok terdiri dari 5 ekor. Terbagi menjadi kelompok normal yaitu kelompok yang diberi pakan normal, kelompok kontrol positif diberi pakan induksi, kelompok hewan uji 1 dan 2 diberikan pakan induksi + ekstrak etanol daun dadap serep dengan dosis masing-masing 100 mg/kgBB dan 200 mg/kgBB, dan kelompok pembanding diberikan pakan induksi + simvastatin 0,9 mg/kgBB selama 36 hari. Parameter dalam penelitian ini merupakan kadar profil lipid yaitu kolesterol total, trigliserida, LDL, dan HDL. Hasil penelitian menunjukkan terjadi penurunan kadar kolesterol total, trigliserida, dan LDL serta peningkatan kadar HDL. Kesimpulan dari penelitian ini bahwa ekstrak etanol daun dadap serep mampu mencegah kenaikan kadar KT, TG, dan LDL, serta penurunan kadar HDL dengan dosis 100 mg/kgBB efektif sebagai antidislipidemia.

Kata Kunci: Dislipidemia, Dadap Serep.

ABSTRACT

**THE ACTIVITY OF ETHANOL EXTRACT OF DADAP SEREP LEAVES
(*Erythrina Subumbrans* [Hassk.] Merr.) AGAINST LIPID PROFILE LEVELS
OF MALE WISTAR RATS INDUCED BY HIGH FAT AND
CARBOHYDRATE FEEDS**

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*Dyslipidemia is a condition in which the levels of total cholesterol, Low Density Lipoprotein (LDL), and triglycerides are increased as well as decreased levels of High Density Lipoprotein (HDL). One of the plants as herbal medicine that is suspected to have antidyslipidemic activity is dadap serep (*Erythrina subumbrans* [Hassk.] Merr.) or known as 'ThongLang Pa' in Thailand which has been reported to be a source of large amounts of flavonoids. Flavonoids are able to reduce cholesterol synthesis and serum triglyceride levels by acting as inhibitors of the HMG-CoA reductase enzyme. The purpose of this study was to determine the effect of ethanol extract of dadap serep leaves (*Erythrina subumbrans* [Hassk.] Merr.) on the lipid profile of male wistar rats induced by a high-fat and carbohydrate diet. This study used 25 male wistar rats which were grouped into 5 groups, with each group consisting of 5 tails. Divided into a normal group, namely the group that was given normal feed, the positive control group was given induction feed, groups of test animals 1 and 2 were given induction feed + ethanol extract of dadap serep leaves at a dose of 100 mg/kgBW and 200 mg/kgBW, and a group The comparison was given induction feed + simvastatin 0.9 mg/kgBW for 36 days. The parameters in this study were lipid profile levels, namely total cholesterol, triglycerides, LDL, and HDL. The results showed a decrease in total cholesterol, triglycerides, and LDL and an increase in HDL levels. The conclusion of this study was that the ethanol extract of dadap serep leaves was able to prevent the increase in KT, TG, and LDL levels, as well as decrease HDL levels with a dose of 100 mg/kgBB effective as antidyslipidemia.*

Keywords: *Dyslipidemia, Dadap serep*