

## Pengaruh pemberian ekstrak etanol 70 % akar tanaman kelembak (*Rheum officinale* Baill.) terhadap profil lipid plasma tikus betina yang diovariectomi = The effect of 70% ethanolic extract of kelembak root (*Rheum officinale* Baill.) on lipid plasma profile of the ovariectomized female rats

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### Abstrak

Kandungan rhaponticin, suatu senyawa stilben, dalam akar tanaman kelembak (*Rheum officinale* Baill.) telah diketahui dapat menurunkan kadar kolesterol plasma. Penelitian ini bertujuan untuk mengetahui efek penurunan kadar lipid plasma dari ekstrak etanol 70% akar tanaman kelembak berdasarkan kadar kolesterol total, trigliserida, HDL, dan LDL pada tikus betina yang diovariectomi. Dalam penelitian, 30 ekor tikus betina diovariectomi dan 6 ekor tikus betina dilakukan pembedahan tanpa ovariectomi. Tikus-tikus tersebut kemudian dibagi dalam 6 kelompok. Kelompok 1 adalah kontrol negatif yang mendapatkan CMC 0,5%, kelompok 2 sebagai kontrol positif mendapatkan Tamoksifen Sitrat dengan dosis 0,4 mg/200 g BB tikus, kelompok 3, 4, dan 5 adalah kelompok yang mendapatkan ekstrak etanol 70% akar tanaman kelembak dengan dosis berturut-turut 7 ; 35; dan 175 mg/200 g BB tikus yang disuspensikan dalam CMC 0,5%, dan kelompok 6 sebagai kelompok sham diberikan CMC 0,5%. Pemberian perlakuan dimulai pada hari ke-21 pascaovariectomi selama 28 hari. Setelah perlakuan, tikus diambil sampel darah untuk pemeriksaan kadar lipid dan kemudian dikorbankan dan diukur berat uterusnya. Penelitian ini menunjukkan bahwa pemberian ekstrak etanol 70% akar tanaman kelembak dapat menurunkan kadar lipid plasma pada kondisi tikus menopause.

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The content of rhaponticin a stilbene compound of Kelembak plant's root (*Rheum officinale* Baill.) has known can lower plasma lipid level. This study aimed to determined the lowering effect in plasma lipid level of 70% ethanolic extract of Kelembak plant's root based on the level of total cholesterol, trygliceride, HDL, and LDL of female ovariectomized rats. In this study, ovariectomy conducted on 30 female rats and surgery withouth ovariectomy on 6 others female rats. These rats were divided into 6 groups. Group 1 is negative control group which received 0,5%, CMC group 2 as positive control group received a dose of Tamoksifen Sitrat of 0,4 mg/200 g BW of rats, group 3,4, and 5 are groups who received 70% ethanolic extracts suspended in 0,5% CMC with successive doses 7 mg ; 35 mg; and 175 mg/200 g BW of rats, and group 6 as sham group given 0,5% CMC. Provison of the treatment started at day-21 after ovariectomy and given treatment for 28 days. After treatment, blood of rats were collected then used for measurement of plasma lipid level. The rats were sacrificed and uterine weight were measured. This study showed that administration of 70% ethanolic extracts of Kelembak root lowered plasma lipid level on menopause rats.