

# Efek ekstrak etanol 70% rimpang temu kunci (*Boesenbergia pandurata* (Roxb.) Schlechter) terhadap kadar asam urat darah tikus yang diinduksi kalium oksonat = The effect of 70% ethanolic extract of fingerroot (*Boesenbergia pandurata* (Roxb.) Schlechter) on plasma uric acid level of rats induced by potassium oxonate

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## Abstrak

Hiperurisemia merupakan kondisi peningkatan kadar asam urat darah melebihi normal. Alopurinol adalah obat konvensional yang sering digunakan untuk menurunkan kadar asam urat, namun memiliki banyak efek samping. Salah satu tanaman yang diduga memiliki efek penurunan kadar asam urat darah adalah rimpang temu kunci (*Boesenbergia pandurata* (Roxb.) Schlechter). Penelitian ini bertujuan untuk mengetahui efek pemberian ekstrak etanol 70% rimpang temu kunci terhadap penurunan kadar asam urat darah tikus putih jantan yang diinduksi kalium oksonat. Sebanyak 30 ekor tikus putih jantan galur Sprague-Dawley dengan berat 150-200 gram dibagi secara acak kedalam enam kelompok, yaitu kelompok uji dengan dosis 40, 60, dan 90 mg/200 g bb, alopurinol 36 mg/200 g bb sebagai kelompok pembanding obat, kalium oksonat 50 mg/200 g bb sebagai kontrol induksi, dan larutan CMC 0,5% sebagai kontrol normal. Semua kelompok diberi perlakuan selama delapan hari, kemudian dilakukan induksi kalium oksonat secara intraperitoneal, kecuali kelompok normal. Pengambilan darah melalui sinus orbital mata pada dua jam setelah induksi. Pengukuran kadar asam urat plasma dilakukan dengan metode kolorimetrik enzimatis menggunakan spektrofotometri UV-Vis pada panjang gelombang 520 nm. Hasil penelitian menunjukkan bahwa ekstrak etanol 70% rimpang temu kunci dosis 40 mg/200 g bb memiliki persentase penurunan kadar asam urat darah terbesar, yaitu 56,84%.

*Hyperuricemia is a condition that shown by uric acid level in blood is higher than normal.*

*Alopurinol is a synthetic drug which is commonly used as an uric acid lowering agent, however it has a lot of adverse effects. Fingerroot (*Boesenbergia pandurata* (Roxb.) Schlechter) is a plant that was estimated has an effect to lower blood uric acid level. The aim of this study was to determine the effect of 70% ethanolic extract of fingerroot, observed by decrease of blood uric acid level in male white rats induced by potassium oxonate. Thirty male white rats of Sprague-Dawley strain weight 150-200 grams were randomly divided into six groups: the treatment groups were given doses of 40, 60, and 90 mg/200 g bw, alopurinol 36 mg/200 g bw as a drug comparison group, potassium oxonate 50 mg/200 g bw as an induction control, and 0.5% CMC solution as a normal control. All group were treated for eight days, then given intraperitoneal administration of potassium oxonate, except the normal group. Whole blood samples were collected from orbital sinus two hours after induced. Plasma uric acid level was measured using colorimetric-enzymatic method by UV-Vis spectrophotometer at 520 nm wavelength. The results showed that 70% ethanolic extract of fingerroot at dose of 40 mg/200 g bw have a highest percentage of lowering plasma uric acid level is 56.84%.*