

# Evaluasi protein total dan profil protein sel Hacat terinflamasi pasca paparan ekstrak etanol buah mengkudu = Total protein and protein profile evaluation of inflamed hacat cell post exposure of ethanol extract of noni fruit / Eki Ryan Setiowati

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Abstrak

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Salah satu tanaman obat Indonesia yang berkhasiat sebagai antiinflamasi adalah mengkudu.

Tujuan: Mengevaluasi perubahan protein total dan profil protein sel HaCaT terinflamasi setelah dipapar ekstrak etanol buah mengkudu.

Metode: Sel HaCaT terinflamasi LPS dipaparkan ekstrak etanol buah mengkudu 1%, 10%, dan 40%. Medium kultur dipisahkan dan protein sel diekstraksi menggunakan reagen Trizol. Protein sel dan protein dalam medium kultur diuji Bradford dan profil protein dievaluasi menggunakan metode SDS PAGE.

Hasil dan Kesimpulan: Terdapat perubahan konsentrasi protein total dan jumlah pita protein medium dan sel pada semua kelompok perlakuan dan kelompok sel terinflamasi dibanding dengan kelompok kontrol.

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**ABSTRACT**

One of Indonesian herb plant that reported has antiinflammations properties is noni.

Objectives: To evaluate the changes of total protein and protein profile in inflamed HaCaT cell after ethanol extract of noni fruit's exposure.

Methods: Inflamed HaCaT cell culture are added by ethanol extract of noni fruits 1%, 10%, and 40%. The culture mediums are separated from the cell while the cell is extracted using Trizol reagent. Then, followed by Bradford assay and analized using SDS PAGE.

Result and Conclusion: There are changes on the consentration of total proteins and the protein profile in the medium and cell of inflammed and treatment group compared to the control group.