

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

ABSTRAK

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.

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.