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## The study of dichloromethane fraction of fruit rinds of Asam kandis (*Garcinia cowa* Roxb) on TNF- $\alpha$ level of T47D breast cancer cell line using ELISA method

Fatma Sri Wahyuni, Wella Citraersya and Dessy Arisanti  
Andalas University, Indonesia

Breast cancer is one of the most prevalent diseases and a major cause of death in women around the world. The rind of asam kandis (*Garcinia cowa* Roxb.) contains xanthone which has potential as anticancer. In previous study, DCM fraction of the rind of asam kandis showed cytotoxic effect on T47D breast cancer cells and also potentially inducing cell death (apoptosis) of the cancer. This study observes how the level of TNF- $\alpha$  is affected by the fraction from the rind of asam kandis in T47D breast cancer cells. TNF- $\alpha$  is known as an inducer of the death (apoptosis) in cells generally and as survival in tumor cell line. Levels of TNF- $\alpha$  are known by using ELISA method based on the principle reaction binding between antigen and antibody. The result showed that the average levels of TNF- $\alpha$  in each of control and treatment (0.1; 1.10 and 100 $\mu$ g/mL) were not significantly affect the levels of TNF- $\alpha$  with P value > 0.05.

### Biography

Fatma Sri Wahyuni has completed her PhD from University of Putra Malaysia in 2010. She is the Head of Department of Pharmacy, Andalas University. She has published more than 18 papers in reputed journals.

[fatmasriwahyuni@gmail.com](mailto:fatmasriwahyuni@gmail.com)

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