



Inhibitory Activity Goblet Depletion and focal inflammatory *Phaleria macrocarpa* Leaves Ethanol Extract on Crypta Mouse after Dextran Sodium Sulphate Induction

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Abstract : Colitis Ulcerative is a major public health problem throught the worldwide. Recently many studies have focused to finding antiinflammatory based on the natural product. The study was aimed to investigative the inhibitory activity of *Phaleria macrocarpa* leaves extract on goblet cell in colitis ulcerative. **Methods**: In this study, Swiss mice were induced by 2% dextran sodium sulfate during a week. *Phaleria macrocarpa* leaves extract each dose of 100, 200, and 300 mg daily and aspirin 0.2 mg, administered orally. Histopathological examination of the colon tissue (hematoxylin-eosin staining) was done by counting the number of goblet cells a in five randomly selected fields visual. **The results**: *Phaleria macrocarpa* leaves extract significantly inhibit the depletion of the count of goblet cells (P 0.000) in colitis. *Phaleria macrocarpa* leaves extract significantly reduce the amount of focus of inflammation (P 0.000) in colitis. **Conclusion**: Our results indicated that may have inhibitory activity in colitis through inhibiting reduction in the number of goblet cell.

Keywords : *Phaleria macrocarpa* leaves extract, inflammation, colitis ulcerative, goblet cell depletion, Dextran Sodium Sulfate.

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