

# Composition and methods for treating inflammation and inflammation-related disorders by *Plectranthus amboinicus* extract

## 本院覽號

28A-960920

## 公告日期

2020-08-10

## 智財權狀態

美國臨時案已申請、PCT已申請、美國8,105,636已獲證、澳洲已申請、紐西蘭已申請、中國已申請、南韓已申請

## 摘要

We show that the crude extract of *Plectranthus Amboinicus* (PA) has anti-inflammatory effects and can inhibit AP-1 binding in vitro. The incubation of HUVEC cells with PA crude extract results in significant inhibition of the LPS-induced expression of IL-6, IL-12, MCP-1, and RANTES. After the crude extract being further fractionated with a preparative HPLC, the active components can server as a novel leads for potential AP-1 inhibitors. We also identify that in vitro AP-1 binding activity can be inhibited by some fractionats from actinomycetes fermentation broth. These fractions have inhibitory effects on AP-1 activity and are useful as preventive or therapeutic agents for diseases in which excessive expression or activities of AP-1 are involved.

## 技術優勢

Novel lead Native Taiwanese Actinomycetes

## 應用範圍

Medicine

## 創作人

Chi-Huey Wong, Yih-Shyun E. Cheng, Hui-Ming Yu, Ting-Jen R. Cheng



中央研究院  
ACADEMIA SINICA