GSU/CMU Biotech symposium 2012

ANTI-INFLAMMATORY ACTIVITIES OF PHYSALIN A FROM *PHYSALIS ANGULATA* THROUGH THE INHIBITION OF MMP-9, NF-KB, AND MAPK ACTIVATION *IN VITRO* AND *IN VIVO*

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2012.11.15

























































































Summary 2

- 1. In *in vitro* tests, RAW264.7 macrophages were treated with physalin A together with LPS, a significant concentration-dependent inhibition of NO production was detected.
- 2. Western blotting revealed that physalin A blocked the protein expression of iNOS, COX-2, Ikk, NF-κB, and MMP-9 in LPS-stimulated RAW264.7 macrophages, significantly.
- 3. Physalin A also inhibited LPS-induced ERK, and JNK phosphorylation.
- 4. In *in vivo* tests, physalin A decreased the paw edema at the 4th and the 5th h after λ -carrageenan administration, that physalin A significantly attenuated the iNOS level and edema in the mice hind paw at the 3th-5th h after λ -carrageenan injection.





