

**Lentianan from shiitake selectively attenuates AIM2 and non-canonical
inflammasome activation while inducing pro-inflammatory cytokine
production**

Huijeong Ahn^{a#}, Eunsam Jeon^{a#}, Jin-Chul Kim^b, Seung Goo Kang^c, Sung-il Yoon^d, Hyun-
Jeong Ko^e, Pyeung-Hyeun Kim^c, and Geun-Shik Lee^{a*}

^aLaboratory of Physiology and Inflammatory Diseases, College of Veterinary Medicine and
Institute of Veterinary Science, Kangwon National University, Chuncheon 24341, Republic
of Korea

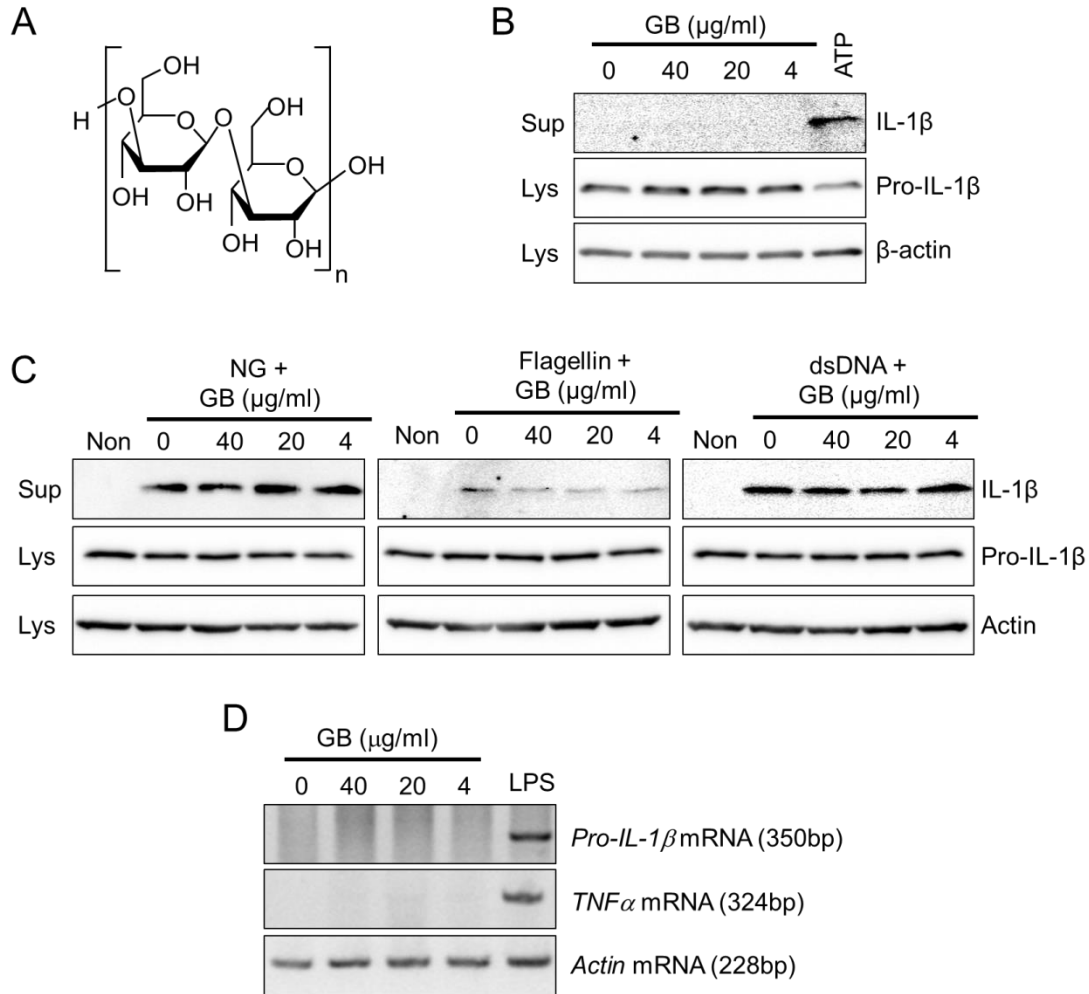
^bNatural Products Research Center, Korea Institute of Science and Technology, Gangneung
25451, Republic of Korea.

^cDepartment of Molecular Bioscience, School of Biomedical Science, Kangwon National
University, Chuncheon 24341, Republic of Korea.

^dDivision of Biomedical Convergence, College of Biomedical Science, Kangwon National
University, Chuncheon 24341, Republic of Korea.

^eLaboratory of Microbiology and Immunology, College of Pharmacy, Kangwon National
University, Chuncheon 24341, Republic of Korea.

Supplemental figure 1.



Supplemental figure 1. β -D-Glucan extracted from barley on cytokine production and maturation.

A, Chemical structure of β -D-glucan extracted from barley (GB, #G6513, Sigma-Aldrich Co.). **B**, LPS-primed BMDMs were treated with the indicated concentration of GB or ATP (2mM) as a positive control. Secretion of active form of IL-1 β was analyzed by immunoblotting. **C**, LPS-primed BMDMs were treated with the indicated dosage of GB with/without nigericin (NG), flagellin, or dsDNA. Secretion of IL-1 β was analyzed by immunoblotting. **D**, BMDMs were treated with the indicated dosage of GB or LPS (10 ng/mL). Expression of *Pro-IL-1 β* and *TNF α* mRNAs was measured by RT-PCR. All immunoblot and RT-PCR data shown are representative of at least three independent experiments.