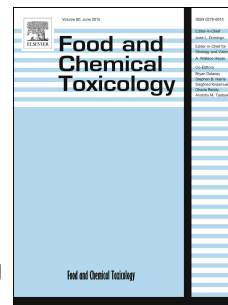


Accepted Manuscript

Hemistepsin A ameliorates acute inflammation in macrophages via inhibition of nuclear factor- κ B and activation of nuclear factor erythroid 2-related factor 2

Jae Kwang Kim, Ji Eun Lee, Eun Hye Jung, Ji Yun Jung, Dae Hwa Jung, Sae Kwang Ku, Il Je Cho, Sang Chan Kim



PII: S0278-6915(17)30672-5

DOI: [10.1016/j.fct.2017.11.014](https://doi.org/10.1016/j.fct.2017.11.014)

Reference: FCT 9399

To appear in: *Food and Chemical Toxicology*

Received Date: 28 August 2017

Revised Date: 1 November 2017

Accepted Date: 8 November 2017

Please cite this article as: Kim, J.K., Lee, J.E., Jung, E.H., Jung, J.Y., Jung, D.H., Ku, S.K., Cho, I.J., Kim, S.C., Hemistepsin A ameliorates acute inflammation in macrophages via inhibition of nuclear factor- κ B and activation of nuclear factor erythroid 2-related factor 2, *Food and Chemical Toxicology* (2017), doi: 10.1016/j.fct.2017.11.014.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Hemistepsin A ameliorates acute inflammation in macrophages via inhibition of nuclear factor- κ B and activation of nuclear factor erythroid 2-related factor 2

Jae Kwang Kim^a, Ji Eun Lee^a, Eun Hye Jung^a, Ji Yun Jung^a, Dae Hwa Jung^b, Sae Kwang Ku^a, Il Je Cho^{a,*}, Sang Chan Kim^{a,**}

^aCollege of Korean Medicine, Daegu Haany University, Gyeongsan, Gyeongsangbuk-do 38610, Republic of Korea; ^bHaniBio Co., Ltd., Gyeongsan, Gyeongsangbuk-do 38540, Republic of Korea

***Corresponding author:** MRC-GHF, Department of Herbal Formulation, College of Korean Medicine, Daegu Haany University, Gyeongsan, Gyeongsangbuk-do 38610, Republic of Korea. Tel: +8253-819-1295, Fax: +8253-819-1860, E-mail: skek023@dhu.ac.kr (I.J. Cho)

****Corresponding author:** MRC-GHF, Department of Herbal Formulation, College of Korean Medicine, Daegu Haany University, Gyeongsan, Gyeongsangbuk-do 38610, Republic of Korea. Tel: +8253-819-1862, Fax: +8253-819-1860, E-mail: sckim@dhu.ac.kr (S.C. Kim)

Abbreviations: ALT, alanine aminotransferase; ARE, antioxidant response element; AST, aspartate aminotransferase; bp, base pairs; CpG, CpG oligodeoxynucleotides; COX-2, cyclooxygenase-2; DAPI, 4',6-diamidino-2-phenylindole dihydrochloride; D-gal, D-galactosamine; ERK, extracellular signal-regulated kinase; FLA, flagellin; GCLC, glutamate-cysteine ligase catalytic subunit; H₂DCF-DA, 2',7'-dihydrodichlorofluorescein diacetate; 4-HNE, 4-hydroxynonenal; HO-1, hemeoxygenase-1; HsA, hemistepsin A; IL, interleukin; I κ B α , inhibitory κ B α ; IKK, I κ B kinase; iNOS, inducible nitric oxide synthase; IRF, interferon regulatory factor; JNK, c-Jun N-terminal kinase; LOX, loxoribine; LPS, lipopolysaccharide; MAPK, mitogen-activated protein kinase; MCP-1, monocyte

Download English Version:

<https://daneshyari.com/en/article/8548514>

Download Persian Version:

<https://daneshyari.com/article/8548514>

[Daneshyari.com](https://daneshyari.com)