



## UvA-DARE (Digital Academic Repository)

### RAGE-dependent mitochondria pathway

*A novel target of silibinin against apoptosis of osteoblastic cells induced by advanced glycation end products article*

Mao, Y.X.; Cai, W.J.; Sun, X.Y.; Dai, P.P.; Li, X.M.; Wang, Q.; Huang, X.L.; He, B.; Wang, P.P.; Wu, G.; Ma, J.F.; Huang, S.B.

**DOI**

[10.1038/s41419-018-0718-3](https://doi.org/10.1038/s41419-018-0718-3)

**Publication date**

2018

**Document Version**

Other version

**Published in**

Cell Death and Disease

**License**

CC BY

[Link to publication](#)

**Citation for published version (APA):**

Mao, Y. X., Cai, W. J., Sun, X. Y., Dai, P. P., Li, X. M., Wang, Q., Huang, X. L., He, B., Wang, P. P., Wu, G., Ma, J. F., & Huang, S. B. (2018). RAGE-dependent mitochondria pathway: A novel target of silibinin against apoptosis of osteoblastic cells induced by advanced glycation end products article. *Cell Death and Disease*, 9(6), [674]. <https://doi.org/10.1038/s41419-018-0718-3>

**General rights**

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

**Disclaimer/Complaints regulations**

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (<https://dare.uva.nl>)

## **Supplementary Figure Legends**

**Supplementary Figure 1 Silibinin prevented AGEs-induced LDH release of osteoblastic MC3T3-E1 cells.** LDH released into the medium. Error bars indicate SEM (n=6).

**Supplementary Figure 2 Similar to the results of H<sub>2</sub>O<sub>2</sub> treatment, AGEs increased the production of mitochondrial ROS and decreased mitochondrial membrane potential in osteoblastic MC3T3-E1 cells. a, b** Representative images showing MitoSOX staining and quantification in the indicated groups. Scale bars=100  $\mu$ m. **c, d** Representative images showing TMRM staining and quantification in the indicated groups. Scale bars=100  $\mu$ m. Error bars indicate SEM (n=6).

**Supplementary Figure 3 Working hypothesis:** Silibinin ameliorated AGEs-induced apoptosis via RAGE-dependent mitochondrial pathway.

**Supplementary Figure 4 Uncropped full-length pictures of Western blotting membranes.** Uncropped full-length pictures of Western blotting membranes presented in the main figures. Membranes were often cut to enable blotting for multiple antibodies.