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## **Supplementary information**



Fig. S1 Intracellular ROS was detected in SGC-7901 cells (a) exposure to 2.0  $\mu M$  of 1

(b), 0.3  $\mu$ M of **2** (c) and **3** (d) for 24 h.



Fig. S2 Superoxide anion  $O_2^{-}$  was detected in SGC-7901 cells (a) exposure to 2.0  $\mu$ M of 1 (b), 0.3  $\mu$ M of 2 (c) and 3 (d) for 24 h.



Fig. S3 Intracellular nitric oxide was detected in SGC-7901 cells (a) exposure to 2.0  $\mu$ M of 1 (b), 0.3  $\mu$ M of 2 (c) and 3 (d) for 24 h.



Fig. S4 The location assays of SGC-7901 exposure to 2.0  $\mu$ M of 1 (b), 0.3  $\mu$ M of 2 (c) and 3 (d) for 4 h.



Fig. S5 Lysosomal permeability assays of SGC-7901 exposure to 2.0  $\mu$ M of 1 (b), 0.3  $\mu$ M of 2 (c) and 3 (d) for 24 h.



Fig. S6 The mitochondrial membrane potential was determined under fluorescent microscope while SGC-7901 cells (a) were treated with CCCP (b, positive control), 2.0 μM of 1 (c), 0.3 μM of 2 (d) and 3 (e) for 24 h.



Fig. S7 Microscope images of invading SGC-7901 cells (a) that have migrated through the Matrigel induced by 2.0  $\mu$ M of 1 (b), 0.3  $\mu$ M of 2 (c) and 3 (d) for 24 h.