| Materials          | Brand (Catalog Number)                                      |
|-------------------|------------------------------------------------------------|
| Nicardipine       | Cayman (17537), reconstitute in DMSO                      |
| HO-1 antibody     | Enzo (ADI-SPA-895)                                        |
| α E-catenin antibody | Santa Cruz (sc-1495)                                 |
| β-catenin antibody | Abcam (ab16051)                                           |
| αSMA antibody     | Abcam (ab5694)                                             |
| N-cadherin antibody | Santa Cruz (sc-59987)                                   |
| α-Tubulin antibody | Sigma-Aldrich (T5168)                                     |
| β-Actin antibody  | Sigma-Aldrich (A5441)                                     |
| GAPDH antibody    | BioLegend (649202)                                        |
| Anti-mouse antibody | Cell Signaling (#7076)                              |
| Anti-rabbit antibody | Cell Signaling (#7074)                             |
| MMP9 ELISA kit    | Abcam (ab253227)                                         |

| Primers | Sequences                                      |
|---------|-----------------------------------------------|
| Human HO-1 | F: CCAGGCAGAGAATGCTGAGTTC  
R: AAGACTGGGCTCTCCTTGTTGC |
| Mouse HO-1 | F: CAGCCCCACCAAGTTCAAC  
R: AGGCCTTTCAGCTCTCTTCTT |
| Mouse MMP-2 | F: CGGTTATTTGGCGGACAGT  
R: GCCTCATACACAGCGTCAATCTT |
| Mouse MMP-9 | F: CCCTGGAACTCTCACACGACATC  
R: TCACACGCGAAGAATTGTC |
| Human Nrf2 | F: CACATCCAGTCAGAAACCAGTG  
R: GGAATGTCTGCGCCAAAAGCTG |
| Mouse Nrf2 | F: CGAGATATACGCAGAGAGGTAAGA  
R: GCTCGAATGTGTCCTCCAGCCTT |
| Human 36B4 | F: CGACCTGGAAGTCCAACTAC  
R: ATCTGCTGCAATCTGCTT |
| Mouse 36B4 | F: AGATGCCAGAGATCCGCAG  
R: GTTCTTGCCCATACAGCACC |

Supplementary Figure 1. Materials and primers used in quantitative real time PCR.
Supplementary Figure 2. The expression of markers of epithelial-mesenchymal transition on breast cancer cells. Under the treatment of nicardipine for 24 hours, the expression of epithelial and mesenchymal markers on MDA-MB-231 (A), 4T1 (B), and JC (C) cells were no significant influenced. Representative data from three independent experiments were shown here.