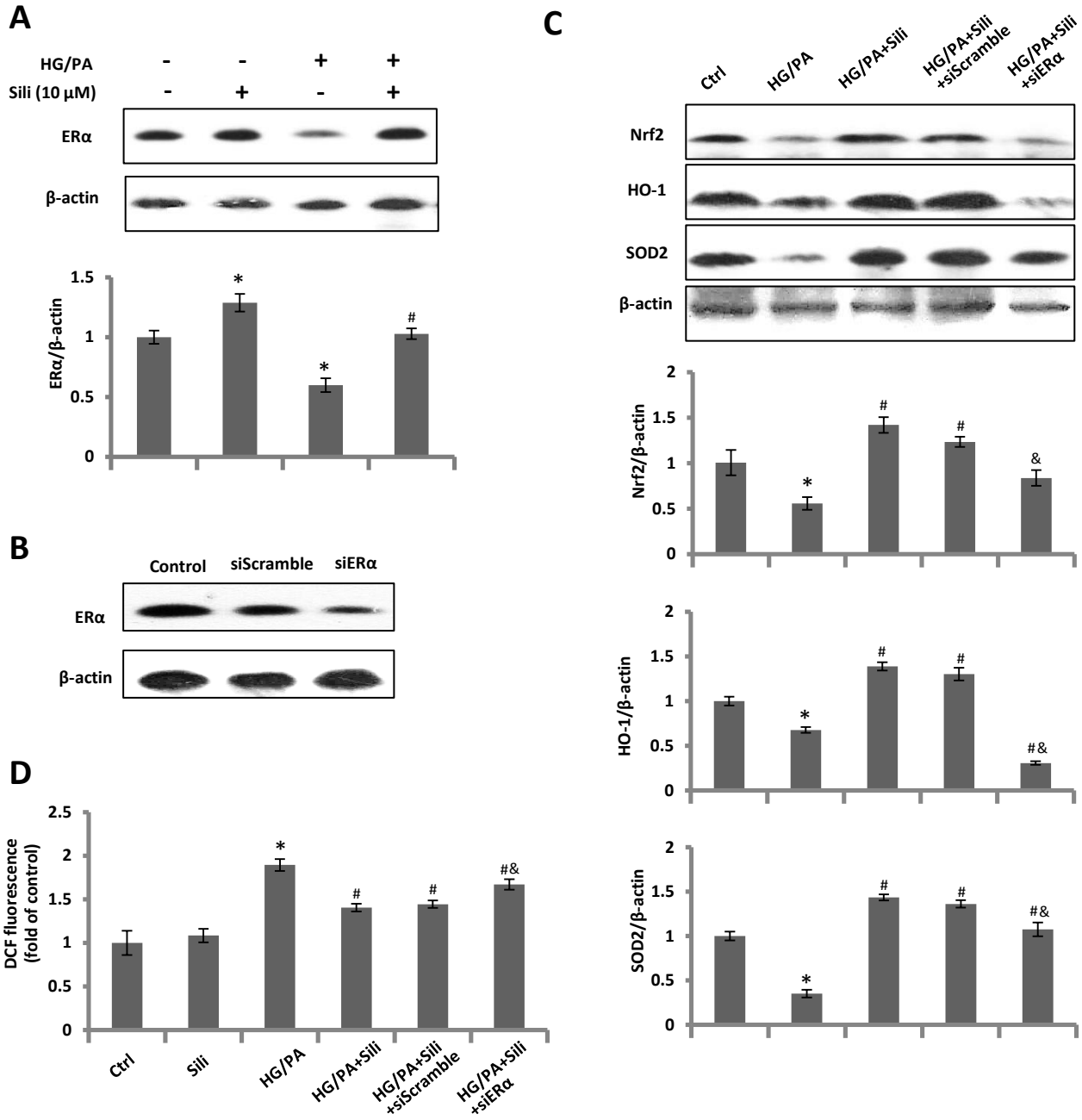
Supplemental Figure 1



Supplemental Figure 1. Silibinin increases the expression of Nrf2, HO-1 and SOD2, and decreases ROS production in an ERα-dependent manner in NIT-1 cells. (A) NIT-1 cells received indicated treatments, and the expression of ERα was examined by Western blot analysis. (B) NIT-1 cells were transfected with ERα siRNA or control siRNA, and ERα protein expression was examined by Western blot assay 48 h after transfection. (C) The expression of Nrf2, HO-1, and SOD2 of NIT-1 cells with administration of silibinin and/or siRNA transfection was examined by Western blot assay. (D) ROS production from NIT-1 cells with administration of silibinin and/or siRNA transfection was measured with DCFH-DA probe. Serum albumin (0.3% BSA) was present under all conditions. HG/PA, high glucose and palmitate/BSA; Sili, silibinin. Data are mean ± SEM of 3 independent experiments. *$P < 0.05$ vs. control group; $^{\#}P < 0.05$ vs. HG/PA group; $^{\&}P < 0.05$ vs. HG/PA + Sili group.