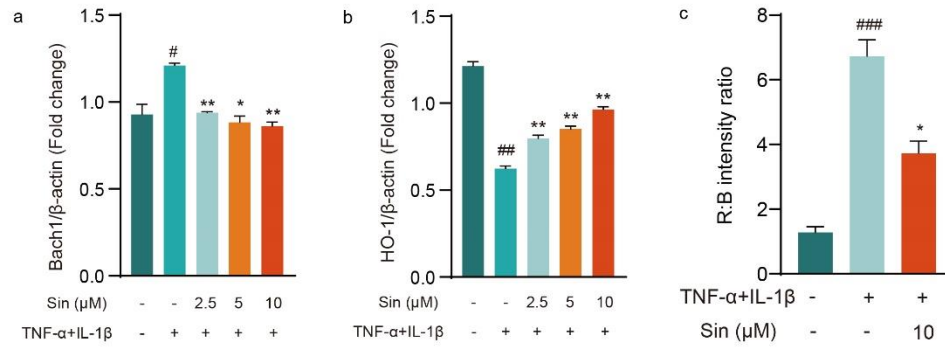
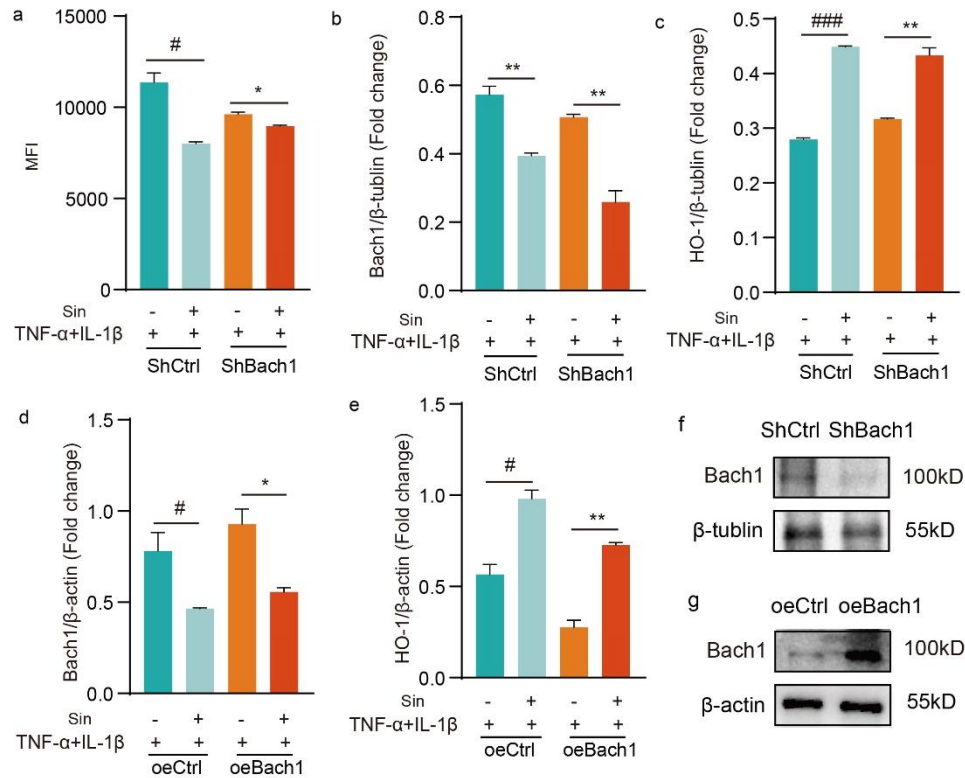


Supplementary Fig.1 (a-b) quantitative analysis of Bach1 and OH-1 in Fig 2e. (c) fluorescence intensity analysis of confocal image in Fig 2f. Data are presented as the mean $\pm$ SD, when compared with control group, # p <0.05, ## p <0.01, ### p <0.001, when compared with TNF- α +IL-1 β group, * p < 0.05, ** p < 0.01 in (a, b, c).



Supplementary Fig.2 (a) mean fluorescence intensity analysis in Fig 3a. (b-c) quantitative analysis of Bach1 and OH-1 in Fig 3e. (d-e) quantitative analysis of Bach1 and OH-1 in Fig 3f. (f) knockdown of Bach1. (g). overexpression of Bach1. Data are presented as the mean $\pm$ SD, # $p < 0.05$, ## $p < 0.01$, ### $p < 0.001$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.



Supplementary Fig.3 (a) absorption distance of Micro CT imaging in periodontitis in mice. (b) number of immune cells in H&E staining of periodontium. (c-e) positive area percentage of TNF- α , IL-1 β and IL-6 in IHC staining of periodontium. (i-g) positive percentage of Bach1 and HO-1 in IHC staining of periodontium. Data are presented as the mean $\pm$ SD, when compared with control group, # p <0.05, ## p <0.01, when compared with PD group, * p < 0.05, ** p < 0.01.

