



Supplementary Fig. 6. Thapsigargin-induced activating transcription factor 4 (ATF4) activation reverses the anti-calcification effect by glucagon-like peptide-1 receptor agonists. A-10 cells pre-exposed to 0.1 μ M thapsigargin for 24 hours are treated with 4 mM inorganic phosphate (Pi), followed by treatment with or without 100 nM exendin-4 (Ex-4), liraglutide (Lira), and dulaglutide (Dula) for 7 days. (A) The protein expression of Atf4, bone morphogenic protein 2 (Bmp2), and runt-related transcription factor-2 (Runx2) are analyzed using Western blotting and (B) levels of calcium deposition are assessed by calcium levels. ^a*P*<0.01 when compared with the control cells, ^b*P*<0.05 and ^c*P*<0.01 when compared with the Pi-treated cells, ^d*P*<0.05 when compared with each thapsigargin-untreated groups.