*Supplementary Materials*

# Multifunctional Tannic Acid-Alendronate Nanocomplexes with Antioxidant, Anti-Inflammatory, and Osteogenic Potency

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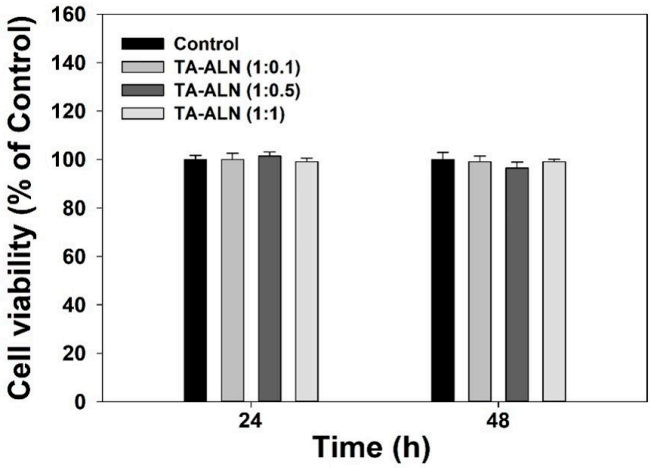


**Figure S1**. Outcome of cytotoxicity test of TA-ALN (1:0.1), TA-ALN (1:0.5) and TA-ALN (1:1) on MC3T3-E1 cells 24 and 48 h (n = 4 per group).

**Table S1**. Real-time PCR primer sequences for genes connected to the pro-inflammatory mediators

| Gene | Primer (forward) | Primer (reverse) |
|---|---|---|
| COX-2 | TAT CAG GTC ATC GGT GGA GA | CGA AGC CAG ATG GTA GCA TA |
| IL-6 | TAC CAC TTC ACA AGT CGG AGG C | CTG CAA GTG CAT CAT CGT TGT TC |
| MMP-3 | CTC TGG AAC CTG AGA CAT CAC C | AGG AGT CCT GAG AGA TTT GCG C |
| TNF-$\alpha$ | GGT GCC TAT GTC TCA GCC TCT T | GCC ATA GAA CTG ATG AGA GGG AG |

**Table S2**. Real-time PCR primer sequences for genes related to the osteogenesis factors

| Gene | Primer (forward) | Primer (reverse) |
|---|---|---|
| OCN | GCT GCT ACT GTG GAA GAG AAG G | CCA CAG ATG ACT GAG AAC GCC T |
| COL1A1 | CAA GAG TGG TGA TCG TGG TG | GCC TGT CTC ACC CTT GTC A |