Supporting Information

Effect of the Extract and Constituents From *Hancornia speciosa* Fruits in Osteoclasts

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**Fig. 1S** UHPLC-ESI-MS chromatogram registered in the negative ionization mode for WF. Quinic acid (Rt = 0.51 min), (iso)chlorogenic acid (Rt = 1.93 min), and rutin (Rt = 2.74 min) were not identified in the fraction. Chromatographic and MS conditions: see Experimental section.
Fig. 2S Effect of quinic acid (QA) on osteoclast differentiation and activity. Mouse bone marrow cells (BMCs) were incubated in the presence of M-CSF(30 ng/mL), RANKL (10 ng/mL) and either QA (3 or 10 μM) or PBS (Control) for 7 days. A Number of TRAP positive cells. B Mean total area of osteoclasts. C Representative pictures of TRAP positive cells (20 × magnification). D Mean area/TRAP positive cells. E Quantification of resorption activity. F Representative images of resorption pits (20× magnification). *P < 0.05 compared with the control group.
Fig. 3S Effects of bornesitol (B) on osteoclast differentiation and activity. Mouse bone marrow cells (BMCs) were incubated in the presence of M-CSF (30 ng/mL), RANKL (10 ng/mL) and either B (3 or 10 μM) or PBS (Control) for 7 days. **A** Number of TRAP positive cells. **B** Mean total area of osteoclasts. **C** Representative pictures of TRAP positive cells (20× magnification). **D** Mean area/TRAP positive cells. **E** Quantification of resorption activity. **F** Representative images of resorption pits (20× magnification). *P < 0.05 compared with the control group; #p < 0.05 compared with the B (3 μM) group.
Fig. 4S Effects of the water fraction (WF) of *H. speciosa* fruits on osteoclast differentiation and activity. Mouse bone marrow cells (BMCs) were incubated in the presence of M-CSF and RANKL (10 ng/mL) with WF (10 and 30 μg/mL) or DMSO (control) for 7 days. A Number of TRAP positive cells. B Mean total area of TRAP positive cells. C Representative pictures of TRAP positive (20× magnification). D Mean area/TRAP positive cells. E Quantification of resorption activity. F Representative images of resorption pits (20× magnification). #P < 0.05 compared with the WF (10 μg/mL) group.