**Figure A**

Comparison of bone growth between DMSO, LY294002, and PI3K inhibitor IV treatments. Representative images show Alcian blue/Alizarin red S staining for bone growth.

**Figure B**

Bar graph depicting bone growth (mm) for DMSO, LY294002, and PI3K inhibitor IV treatments. Bars are labeled with significant differences (p<0.05) and n=3.

**Figure C**

Images of bone growth with Alcian blue/Alizarin red S staining, showing gp1, min, and gp2 treatment groups with a significant difference (p<0.05) and n=12.

**Figure D**

Graph showing length (um) for gp1, min, and gp2 treatments with LY294002 and DMSO, indicating a significant difference (p<0.05) and n=12.

**Figure E**

Bar graph for percentage with LY294002 and DMSO treatments, showing a significant difference (p<0.05) and n=11.