CLAIMS

1. A sterile liquid formulation that has an absolute viscosity of 10 cP or less comprising:

(a) an anti-sclerostin immunoglobulin at a concentration of at least 70 mg/mL;

(b) a calcium salt at a concentration ranging from 5 mM to 20 mM and

(c) a total concentration of acetate ranging from 10 mM to 90 mM, wherein the immunoglobulin comprises amino acid sequences of: (i) SEQ ID NO: 86 and SEQ ID NO: 84.

2. The formulation of claim 1, that has a total osmolarity of less than 350 mOsm/L.

3. The formulation of claim 1 or 2, wherein the immunoglobulin is present as a concentration of at least 120 mg/mL.

4. The formulation of any one of claims 1-3, wherein the absolute viscosity of the formulation is 8 cP or less, or 6 cP or less.

5. The formulation of any one of claims 1-4, wherein the formulation further comprises a polyol in an amount ranging from 4% w/v to 6 % w/v.

6. The formulation of claim 5, wherein the polyol is sucrose.

7. The formulation of any one of claims 1-6, wherein the formulation comprises a total concentration of acetate of at least 50 mM.

8. The formulation of any one of claims 1-7, wherein the acetate comprises sodium acetate.

9. The formulation of any one of claims 1-8, wherein the formulation has a pH ranging from 4.5 to 6, or from 5 to 5.5.

10. The formulation of any one of claims 1-9, wherein the formulation further comprises a surfactant.

11. The formulation of any claims 9, wherein the concentration of the surfactant is from 0.004% w/v to 0.2% w/v.

12. The formulation of claim 9 or 10, wherein the surfactant is polysorbate 20.

13. The formulation of any one of claims 1-12, wherein the immunoglobulin comprises the amino acid sequences set forth in SEQ ID NOs: 88 and 90.

14. The formulation of any one claims 1-13, wherein the viscosity is assessed at 25 °C or between 2-8 °C.

15. The formulation of any one of the preceding claims, for use in treating a patient undergoing an orthopedic procedure, dental procedure, implant surgery, joint replacement, bone grafting, bone cosmetic surgery or bone repair.

16. Use of the formulation of any one of claims 1-14 in the preparation of a medicament for treating a patient undergoing an orthopedic procedure, dental procedure, implant surgery, joint replacement, bone grafting, bone cosmetic surgery or bone repair.

17. The formulation for use of claim 15 or use of claim 16, wherein the bone repair is fracture healing, nonunion healing, delayed union healing or facial reconstruction.