Claims

1. A kit comprising,

   a) a self-assembling peptide comprising the amino acid sequence SEQ ID NO: 1 or an amino acid sequence having at least 70% identity thereto, and

   b) (i) calcium and phosphate ions in separate compositions suitable for immediately forming calcium phosphate precipitates, preferably, amorphous calcium phosphate (ACP), if the compositions are mixed in the presence of water, wherein the compositions optionally are solutions, or

   (ii) calcium phosphate particles, optionally, in the form of a suspension of calcium phosphate particles comprising at least 50% ACP.

2. The kit of claim 1 for use in inducing tooth remineralization or bone regeneration in at least a region of a subject in need thereof.

3. The kit of any of the preceding claims, comprising

   b) calcium and phosphate ions in separate compositions suitable for immediately forming calcium phosphate precipitates, ACP if the compositions are mixed in the presence of water, wherein the compositions preferably are solutions.

4. The kit of claim 3, wherein the solution comprising calcium ions comprises Ca^{2+} in a concentration of 0.01-0.5 M, e.g., 0.1-0.15 M, wherein the solution preferably comprises $CaCl_2$.

5. The kit of any of claims 3 or 4, wherein the solution comprising phosphate ions comprises phopsphate in a concentration of 0.01-0.5 M, e.g., 0.1-0.15 M, wherein the solution preferably comprises Na_2HPO_4.

6. The kit of any of the claims 3-5, wherein the self-assembling peptide is a part of the composition comprising calcium ions, wherein the composition preferably is a solution.

7. The kit of any of the claims 3-5, wherein the self-assembling peptide is a part of the composition comprising phosphate ions, wherein the composition preferably is a solution.

8. The kit of any of the preceding claims, further comprising fluoride ions.

9. The kit of any of claims 1 - 2 or 8, comprising

   b) calcium phosphate particles, preferably, comprising at least 50% ACP, optionally, an aqueous suspension of ACP.

10. The kit of any of the preceding claims, wherein the self-assembling peptide comprises the amino acid sequence SEQ ID NO: 1, wherein the self-assembling peptide optionally consists of said amino acid sequence.

11. The kit of any of the preceding claims, wherein the self-assembling peptide is provided in a composition selected from the group consisting of a dry composition, a lyophilized composition, a water-based solution, a toothpaste, a tooth gel, a mouthwash, a mouth spray, an oral care foam, a chewing gum, a toffee, a lozenge, or a candy.

12. The kit of any of claims 1-2 or 8-11, wherein the composition comprising the calcium phosphate particles is provided as a composition selected from the group consisting of a dry powder, a water-based suspension, a water-free product, a toothpaste, a tooth gel, a mouthwash, a mouth spray, an oral care foam, a chewing gum, a toffee, a lozenge, a tablet or a candy.

13. The kit of any of the preceding claims that is a solid or semi-solid composition comprising,

    a) in a first part, the self-assembling peptide, and
    b) in a second part, which is optionally surrounded by the first part, the phosphate ions or the calcium phosphate particles.

14. The kit of any of the preceding claims for use as a medicament.

15. Use of the kit of any of the preceding claims in the manufacture of a medicament for the treatment of a tooth lesion, wherein the kit is for inducing remineralization in or on a tooth of a subject.

16. Use of the kit of any of the preceding claims in the manufacture of a medicament for the treatment of a bone defect, optionally, caused by a tumor or by trauma, augmentation or reconstructive treatment of the alveolar ridge, filling of a periodontal defect, filling of a defect after root resection, apicoectomy, cystectomy, filling of an extraction socket to enhance preservation of the alveolar ridge, elevation of the maxillary sinus floor; filling of a periodontal defect, filling of a peri-implant defect or for orthopaedic indications, wherein the kit is for inducing regeneration in a bone of a subject.