Claims

[Claim 1]

Use of any one of substances (a) to (c) in the manufacture of a medicament for preventing and/or treating a cartilage disorder, wherein:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one to four amino acids substituted, deleted, inserted, or added and having an effect of regenerating cartilage tissue; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 90% or more to the amino acid sequence set forth in SEQ ID NO: 1 and having an effect of regenerating cartilage tissue; and

the cartilage disorder is traumatic cartilage defect of joint, osteoarthritis, osteochondritis dissecans, traumatic arthritis, rheumatoid arthritis, or infectious arthritis.

[Claim 2]

The use according to claim 1, wherein the cartilage disorder is traumatic cartilage defect of joint, osteoarthritis, or osteochondritis dissecans.

[Claim 3]

The use according to claim 1 or 2, wherein the substance is selected from (a) to (c) below:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one to three amino acids substituted, deleted, inserted, or added and having an effect of regenerating cartilage tissue; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 93% or more to the amino acid sequence set forth in SEQ ID NO: 1 and having an effect of regenerating cartilage tissue.

[Claim 4]

The use according to claim 1 or 2, wherein the substance is selected from (a) to (c) below:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one to two amino acids substituted, deleted, inserted, or added and having an effect of regenerating cartilage tissue; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 95% or more to the amino acid sequence

set forth in SEQ ID NO: 1 and having an effect of regenerating cartilage tissue.

[Claim 5]

The use according to claim 1 or 2, wherein the substance is selected from (a) to (c) below:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one amino acid substituted, deleted, inserted, or added and having an effect of regenerating cartilage tissue; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 97% or more to the amino acid sequence set forth in SEQ ID NO: 1 and having an effect of regenerating cartilage tissue.

[Claim 6]

The use according to claim 1 or 2, wherein the substance is a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1.

[Claim 7]

Use of any one of substances (a) to (c) in the manufacture of a medicament for regenerating hyaline cartilage in a patient with a cartilage disorder, wherein:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one to four amino acids substituted, deleted, inserted, or added and having an effect of regenerating hyaline cartilage; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 90% or more to the amino acid sequence set forth in SEQ ID NO: 1 and having an effect of regenerating hyaline cartilage; and

the cartilage disorder is traumatic cartilage defect of joint, osteoarthritis, osteochondritis dissecans, traumatic arthritis, rheumatoid arthritis, or infectious arthritis.

[Claim 8]

The use according to claim 7, wherein the cartilage disorder is traumatic cartilage defect of joint, osteoarthritis, or osteochondritis dissecans.

[Claim 9]

The use according to claim 7 or 8, wherein the substance is selected from (a) to (c) below:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one to three amino acids substituted, deleted, inserted, or added and having an effect of regenerating hyaline cartilage; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 93% or more to the amino acid sequence set forth in SEQ ID NO: 1 and having an effect of regenerating hyaline cartilage.

[Claim 10]

The use according to claim 7 or 8, wherein the substance is selected from (a) to (c) below:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one to two amino acids substituted, deleted, inserted, or added and having an effect of regenerating hyaline cartilage; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 95% or more to the amino acid sequence

set forth in SEQ ID NO: 1 and having an effect of regenerating hyaline cartilage.

[Claim 11]

The use according to claim 7 or 8, wherein the substance is selected from (a) to (c) below:

(a) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1 with one amino acid substituted, deleted, inserted, or added and having an effect of regenerating hyaline cartilage; and

(c) a peptide consisting of an amino acid sequence having a sequence identity of 97% or more to the amino acid sequence set forth in SEQ ID NO: 1 and having an effect of regenerating hyaline cartilage.

[Claim 12]

The use according to claim 7 or 8, wherein the substance is a peptide consisting of an amino acid sequence set forth in SEQ ID NO: 1.