Claims

[Claim 1]

A pharmaceutical composition for preventing and/or treating a cartilage disorder, comprising any one substance of (a) to (c):

(a) an HMGB1 fragment peptide comprising an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide comprising an amino acid sequence set forth in SEQ ID NO: 1 with one or more amino acids substituted, deleted, inserted, or added; and

(c) a peptide comprising an amino acid sequence having a sequence identity of about 80% or more to the amino acid sequence set forth in SEQ ID NO: 1.

[Claim 2]

The pharmaceutical composition according to claim 1, wherein the cartilage disorder is traumatic cartilage defect, osteoarthritis, or osteochondritis dissecans.

[Claim 3]

The pharmaceutical composition according to claim 1 or 2 for use in preventing and/or treating a cartilage disorder.

[Claim 4]

The pharmaceutical composition for use according to claim 3, wherein the cartilage disorder is traumatic cartilage defect, osteoarthritis, or osteochondritis dissecans.

[Claim 5]

Use of the pharmaceutical composition according to claim 1 or 2 in the manufacture of a medicament for preventing and/or treating a cartilage disorder.

[Claim 6]

The use according to claim 5, wherein the cartilage disorder is traumatic cartilage defect, osteoarthritis, or osteochondritis dissecans.

[Claim 7]

A pharmaceutical composition for regenerating hyaline cartilage in a patient with a cartilage disorder, comprising any one substance of (a) to (c):

(a) an HMGB1 fragment peptide comprising an amino acid sequence set forth in SEQ ID NO: 1;

(b) a peptide comprising an amino acid sequence set forth in SEQ ID NO: 1 with one or more amino acids substituted, deleted, inserted, or added; and

(c) a peptide comprising an amino acid sequence having a sequence identity of about 80% or more to the amino acid sequence set forth in SEQ ID NO: 1.

[Claim 8]

The pharmaceutical composition according to claim 7, wherein the cartilage disorder is traumatic cartilage defect, osteoarthritis, or osteochondritis dissecans.

[Claim 9]

The pharmaceutical composition according to claim 7 or 8 for use in regenerating hyaline cartilage in a patient with a cartilage disorder.

[Claim 10]

The pharmaceutical composition for use according to claim 9, wherein the cartilage disorder is traumatic cartilage defect, osteoarthritis, or osteochondritis dissecans.

[Claim 11]

Use of the pharmaceutical composition according to claim 7 or 8 in the manufacture of a medicament for regenerating hyaline cartilage in a patient with a cartilage disorder.

[Claim 12]

The use according to claim 11, wherein the cartilage disorder is traumatic cartilage defect, osteoarthritis, or osteochondritis dissecans.