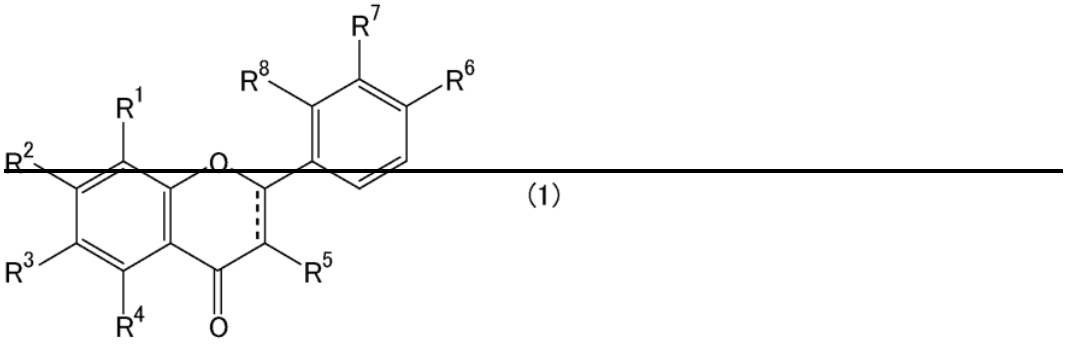
CLAIMS

Claim 1. Use of at least one flavonoid selected from the group consisting of taxifolin, isorhamnetin, eriodictyol, and morin in the preparation of a medicament for promoting cartilage regeneration. ~~A composition for promoting cartilage regeneration, comprising: a flavonoid represented by the following formula (1) as an active ingredient:~~

~~[Chem. 1]~~



(1)

~~wherein R^1, R^2, R^3, R^4 and R^5 each independently represent a hydrogen atom or a hydroxy group; R^6 represents a hydroxy group or a C1-C2 alkoxy group; one of R^7 and R^8 represents a hydrogen atom and the other represents a hydroxy group or a C1-C2 alkoxy group; and a dashed line indicates that a bond may or may not be present.~~

Claim 2. The use ~~composition for promoting cartilage regeneration~~ according to claim 1,

wherein the medicament ~~composition~~ promotes differentiation into cartilage cells.

~~Claim 3. The composition for promoting cartilage regeneration according to claim 1 or 2,~~

~~wherein R^1 and R^3 represent hydrogen atoms.~~

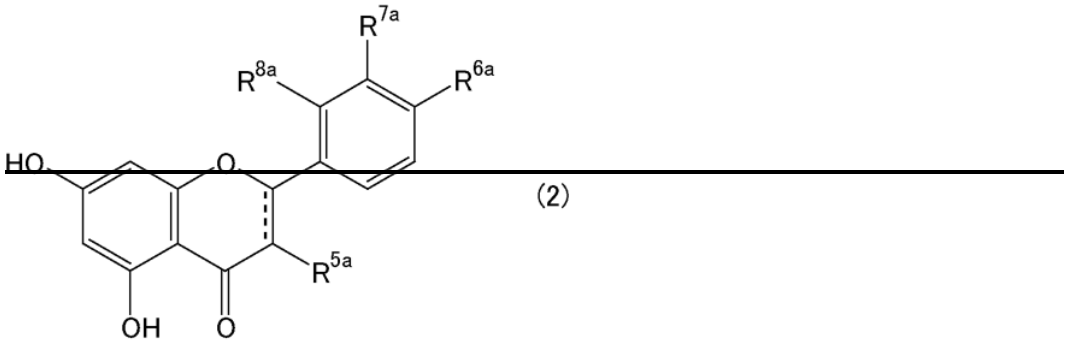
~~Claim 4. The composition for promoting cartilage regeneration according to any one of claims 1 to 3,~~

wherein R^2 and R^4 represent hydroxy groups.

Claim 5. The composition for promoting cartilage regeneration according to any one of claims 1 to 4,

wherein the flavonoid represented by the formula (1) is a flavonoid represented by the following formula (2):

[Chem. 2]



(2)

wherein R^{5a} represents a hydrogen atom or a hydroxy group; R^{6a} represents a hydroxy group or a methoxy group; one of R^{7a} and R^{8a} represents a hydrogen atom and the other represents a hydroxy group or a methoxy group; and a dashed line indicates that a bond may or may not be present.

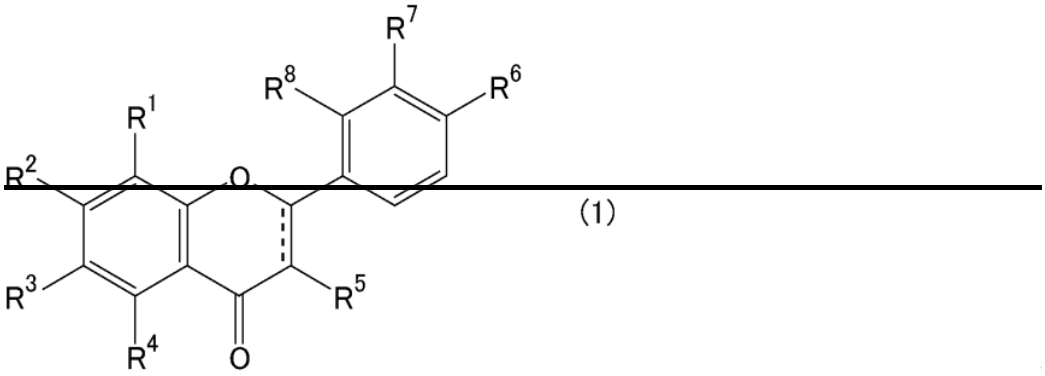
Claim 6. The composition for promoting cartilage regeneration according to any one of claims 1 to 5,

wherein the flavonoid represented by the formula (1) is at least one selected from the group consisting of quercetin, hesperetin, taxifolin, isorhamnetin, eriodictyol, luteolin, and morin.

Claim 7. A method of promoting cartilage regeneration, comprising:

administering a flavonoid represented by the following formula (1):

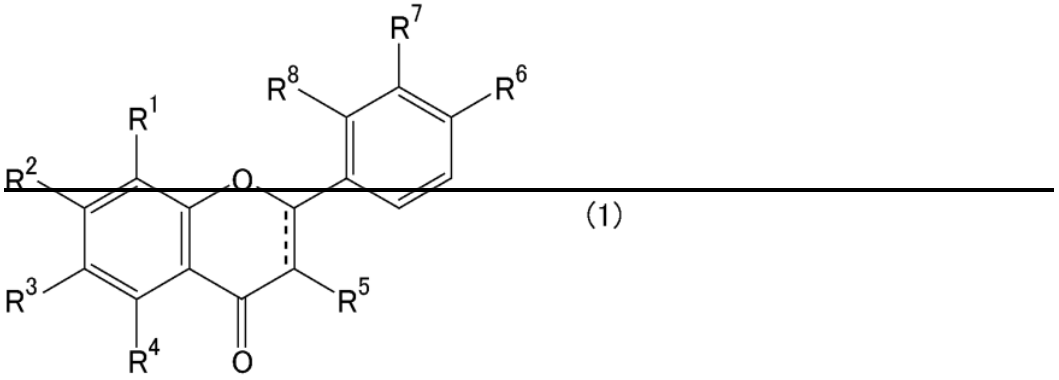
[Chem. 3]



(1)

~~wherein R^1, R^2, R^3, R^4 and R^5 each independently represent a hydrogen atom or a hydroxy group; R^6 represents a hydroxy group or a C1-C2 alkoxy group; one of R^7 and R^8 represents a hydrogen atom and the other represents a hydroxy group or a C1-C2 alkoxy group; and a dashed line indicates that a bond may or may not be present.~~

~~Claim 8. Use of a flavonoid represented by the following formula (1) for promoting cartilage regeneration: [Chem. 4]~~



(1)

~~wherein R^1, R^2, R^3, R^4 and R^5 each independently represent a hydrogen atom or a hydroxy group; R^6 represents a hydroxy group or a C1-C2 alkoxy group; one of R^7 and R^8 represents a hydrogen atom and the other represents a hydroxy group or a C1-C2 alkoxy group; and a dashed line indicates that a bond may or may not be present.~~

Claim 3. The use according to claim 1 or 2,

wherein the medicament is a food, beverage, an oral pharmaceutical product, or an oral quasi-pharmaceutical product.