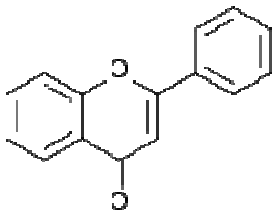
Claims

1. ~~Use of a~~A composition comprising at least one flavonoid compound for treating skin inflammation by increasing hesperetin ((S/R)-2,3-dihydro-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one) bioavailability in a mammal having the skin inflammation comprising the steps of administering said composition which is a cosmetic composition and not hesperetin to the mammal.~~, with the proviso that the flavonoid compound is not hesperetin, for the preparation of a product to provide an increased hesperetin ((S/R) 2,3 dihydro 5,7 dihydroxy 2 (3 hydroxy 4 methoxyphenyl) 4H 1 benzopyran 4 one) bioavailability in a mammal.~~

2. ~~Use~~ The composition in accordance with claim 1, wherein the flavonoid compound is selected from the group of compounds with the following general formula,



, wherein carbons 3, 5, 6, 7, 8, 2', 3', 4', 5' and/or 6' are be substituted equally or different from one another with an H, OH, or OCH_3 group, with the proviso that the compound is not hesperetin.

3. ~~Use~~ The composition in accordance with one of the preceding claims, wherein at least one flavonoid compound is selected from the group consisting of quercetin, fisetin, chrysin, acacetin, apigenin, luteolin tangeritin, baicalein, scutellarein, wogonin, diosmin and flavoxate, kaempferol, myricetin, fisetin, isorhamnetin, pachypodol, rhamnazin, hesperidin, rutin, galangin, kaempferide, genistein, daidzein, biochanin A, catechin, epicatechin, EGCG, phloretin, and combinations thereof

4. ~~Use~~ The composition in accordance with one of the preceding claims wherein the compound is selected from the group of dietary flavonoids.

5. The compositionUse in accordance with one of the preceding claims, wherein at least one flavonoid compound is present in the productcomposition in an amount of 0.01 mg -10000 mg per daily dose.

6. The compositionUse in accordance with one of the preceding claims to improve the health properties ofincrease effectiveness of hesperetin.

7. The compositionUse in accordance with one of the preceding claims, wherein the composition further comprises hesperetin, preferably in an amount of 0.1 mg to 10000 mg, more preferred 1mg – 1000mg, even more preferred 10mg – 500 mg per daily dose, and/or wherein the hesperetin is provided in the form of an extract from herbs such as mint or from citrus fruits, in particular from oranges, mandarins, lemons, limes, and/or grapefruits.

8. The compositionUse in accordance with one of the preceding claims to increase the anti-oxidative defence of an organism.

9. The compositionUse in accordance with one of the preceding claims to treat or prevent inflammation.

10. The compositionUse in accordance with one of the preceding claims to protect an organism against toxins.

11. The compositionUse in accordance with one of the preceding claims to treat or prevent the formation of varicose veins, haemorrhoids, or venous ulcers.

12. The compositionUse in accordance with one of the preceding claims to treat or prevent high cholesterol levels, to increase HDL-cholesterol levels and/or to decrease levels of triglycerides in the blood.

13. The compositionUse in accordance with one of the preceding claims to treat or prevent viral infections, in particular herpes simplex type I and/or influenza infections.

14. The composition~~Use~~ in accordance with one of the preceding claims to treat, prevent or reduce cancer growth.

15. The composition in accordance with claim 1, wherein the~~Composition~~ composition comprising at least one flavonoid compound, with the proviso that the flavonoid compound is not hesperetin, and hesperetin, wherein the at

least one flavonoid compound and hesperetin are each present in an amount of 10 ng -10000 mg per daily dose.