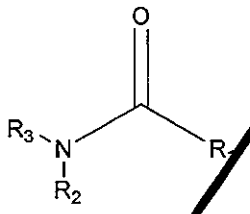
Claims:

1. The use of a compound according to formula (I) or the edible salts thereof in an edible composition to mask or modulate an undesired taste or off-taste contained in the edible composition

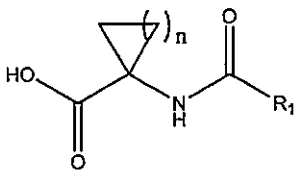


(1)

wherein

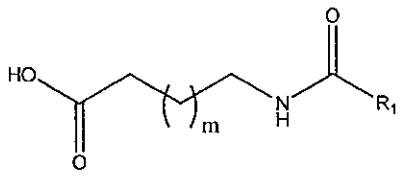
R_1 is an alkyl residue containing 6 to 20 carbon atoms, or an alkene residue containing from 9 to 25 carbon atoms with 1 to 6 double bonds, R_1 together with the carbonyl group to which it is attached is a residue of a carboxylic acid, and NR_2R_3, in which R_3 is H or together with R_2 and the N-atom to which they are attached, a 5-membered ring, is a residue of an amino acid, in particular a proteinogenic amino acid, ornithine, gamma-aminobutyric acid or beta alanine, or a 1-amino cycloalkyl carboxylic acid.

2. Use according to claim 1 wherein the compound is represented by the formula



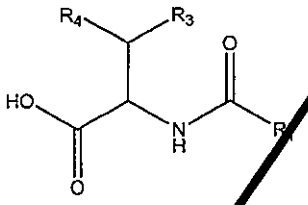
and edible salts thereof, wherein n is 1, 2, 3 or 4.

3. Use according to claim 1 wherein the compound is represented by the formula



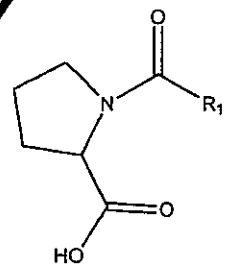
and edible salts thereof, wherein m is 0 or 1.

4. Use according to claim 1 wherein the compound is represented by the formula



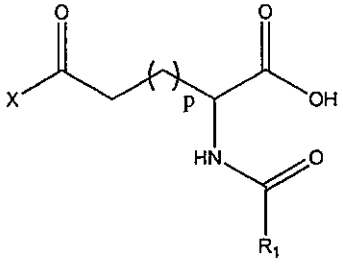
edible salts thereof, wherein R_3 is hydrogen or methyl, and R_4 is methyl, ethyl or iso-propyl.

5. Use according to claim 1 wherein the compound is represented by the formula



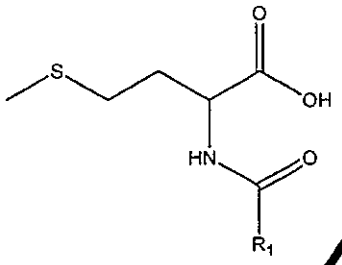
and edible salts thereof.

6. Use according to claim 1 wherein the compound is represented by the formula



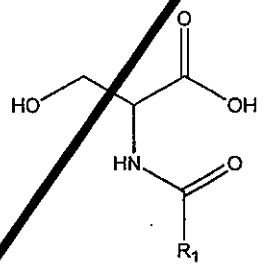
and edible salts thereof, wherein X is OH or NH_2 and P is 0 or 1.

7. Use according to claim 1 wherein the compound is represented by the formula



and edible salts thereof.

8. Use according to claim 1 wherein the compound is represented by the formula



and edible salts thereof.

9. Use according to claim 1 wherein the compound is selected from the group consisting of N-palmitoyl 1-amino-cyclopropyl carboxylic acid (C16:0-ACCA), N-stearoyl 1-amino-cyclopropyl carboxylic acid (C18:0-ACCA), N-linoleoyl 1-amino-cyclopropyl carboxylic acid (C18:2-ACCA), N-linolenoyl 1-amino-cyclopropyl carboxylic acid (C18:2-ACCA), N-oleoyl 1-amino-cyclopropyl carboxylic acid (C18:1-ACCA), N-(9-palmitenoyl) 1-amino-cyclopropyl carboxylic acid (C16:1-ACCA), N-decanoyl 1-amino-cyclopropyl carboxylic acid (C10:0-ACCA) and N-geranoyl 1-amino-cyclopropyl carboxylic acid (C10:2-ACCA); C10-GABA, C12-GABA, more particularly C12:1-GABA, C14-GABA, C16-GABA, more particularly C16:1-GABA, C18-GABA, more particularly C18:1-GABA, still more particularly C18:1c-GABA and C18:1t-GABA, and 18:2-GABA;

C18:2-Beta Ala; N-palmitenoyl-L-leucine, N-palmitoyl-L-leucine, N-linolenoyl-L-leucine, N-linoleoyl-L-leucine and N-oleoyl-L-leucine; N-oleoyl-Ile; N-palmitenoyl-L-valine, N-palmitoyl-L-valine, N-linolenoyl-L-valine, N-linoleoyl-L-valine and N-oleoyl-L-valine; N-geranoyl-Pro, N-palmitoyl-Pro, N-palmiteneoyl-Pro, N-stearoyl-Pro, N-linoleoyl-Pro and N-linolenoyl-Pro; N-geranoyl-Glu, N-palmitoyl-Glu, N-palmitenoyl-Glu, N-stearoyl-Glu,N- linoleoyl-Glu and N-linolenoyl-Glu.; N-geranoyl-Asp, N-palmitoyl-Asp, N-palmitenoyl-Asp, N-stearoyl-Asp, N-linoleoyl-Asp and N- linolenoyl-Asp; N-geranoyl-Gln, N-palmitoyl-Gln, N-palmitenoyl-Gln, N-stearoyl-Gln, N-linoleoyl-Gln and N-linolenoyl-Gln; N-geranoyl-Asn, N-palmitoyl-Asn, N-palmitenoyl-Asn, N-stearoyl-Asn, N-linoleoyl-Asn and N- linolenoyl-Asn; N-geranoyl-Met, N-palmitoyl-Met, N-palmitenoyl-Met, N-stearoyl-Met, N-linoleoyl-Met and N-linolenoyl-Met; N-palmitoyl-Ser, N-palmitenoyl-Ser, N-stearoyl-Ser, N-linoleoyl-Ser and N-linolenoyl-Ser; N-octanoyl-L-phenylalanine, , N-eicosanoyl-L-phenylalanine, N-palmitoleoyl-L-phenylalanine, N-palmitoyl-L-phenylalanine , N-linolenoyl-L-phenylalanine , N-linoleoyl-L-phenylalanine, N-oleoyl-L-phenylalanine, N-SDA-L-phenylalanine, N-DPA-L-phenylalanine, and N-tetracosahexaenoyl-L-phenylalanine; N-palmitoyl-L-alanine, N-linolenoyl-L-alanine, N-linoleoyl-L-alanine;N-palmitoyl-L-tyrosine, N-linoleoyl-L-tyrosine, N-oleoyl-L-tyrosine, N-linolenoyl-L-tyrosine; N-palmitoyl-L-tryptophan, N-linolenoyl-L-tryptophan, N-linoleoyl-L-tryptophan; and N-linoleoyl-glycine.

10. An edible composition comprising an ingredient that has associated with its use an undesired taste or off-taste, and a compound defined in any of the claims 2 to 9.

11. An edible composition according to claim 10 wherein the ingredient that has associated with its use an undesired or off-taste is selected from the group consisting of flavanoids, polyphenols, peptides, minerals, terpenes, caffeine, taurine, carnitine, glucorolactone, guarana, vitamins, minerals, amino acids, proteins or protein analogs, peptides, antioxidants, sugar substitutes selected from natural or synthetic high intensity sweeteners, dairy substitutes (soy, rice), pharmacological actives (both Rx and OTC), enzyme modified cheese, oral

care actives selected from mouthwash, toothpaste, chlorohexidine (gluconate), cetyl pyridinium chloride, tego-betaine and metal salts selected from stannous salts and zinc salts, whey, casein, tannins, coffee and tea products, preservatives selected from sodium benzoate and potassium sorbate.

12. An edible composition according to claim 11 or 12 wherein said ingredient is a carbohydrate sweetener, selected from sucrose, high fructose corn syrup, fructose and glucose, or high intensity, non-nutritive sweeteners selected from aspartame, acesulfame K, sucralose, cyclamate, sodium saccharin, neotame, rebaudioside A

13. An edible composition according to claim 11 or claim 12 wherein the ingredient is a soy-based ingredient.

14. An edible composition according to claim 10 to 13 in the form of a powdered soft drink or a dry mix composition.

15. An edible composition according to claim 10 to 13 in the form of a snack food.

16. An edible composition according to claim 10 to 13 in the form of an alcoholic beverage.

17. An edible composition according to claim 10 to 13 in the form of an orally administrable tablet, capsule, powder or multiparticulate.

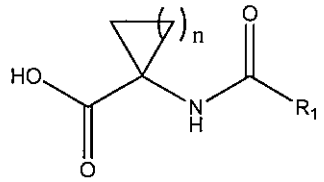
18. An edible composition according to claim 10 to 13 in the form of a caloric or non-caloric beverage containing carbohydrate sweeteners, selected from sucrose, high fructose corn syrup, fructose and glucose, or high intensity, non-nutritive sweeteners selected from aspartame, acesulfame K, sucralose, cyclamate, sodium saccharin, neotame, rebaudioside A, and/or other stevia-based sweeteners.

19. An edible composition according to claim 10 to 13 containing a soy-protein.

Claims:

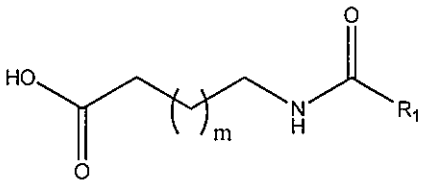
1. The use of a compound according to a formula in an edible composition to mask or modulate an undesired taste or off-taste contained in the edible composition selected from the group consisting of:

a)



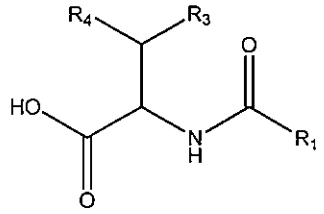
and edible salts thereof, wherein n is 1, 2, 3 or 4;

b)



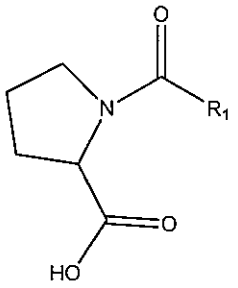
and edible salts thereof, wherein m is 0 or 1; R_1 together with the carbonyl group to which it is attached is a residue of a carboxylic acid selected from gamma amino butyric acid (GABA) and beta alanine;

c)



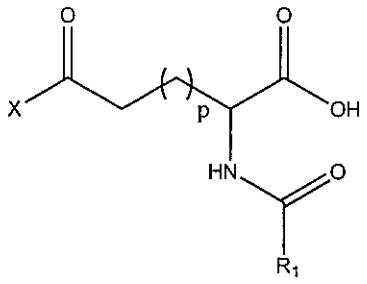
edible salts thereof, wherein R_3 is hydrogen or methyl, and R_4 is methyl, ethyl or iso-propyl;

d)



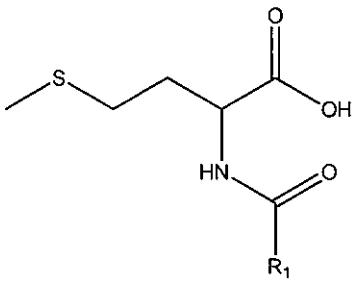
and edible salts thereof; selected from N-geranoyl-Pro, N-palmiteneoyl-Pro, N-stearoyl-Pro, N-linoleoyl-Pro and N-linolenoyl-Pro.

e)



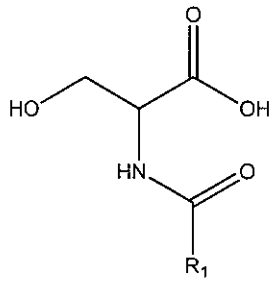
and edible salts thereof, wherein X is OH or NH_2 and P is 0 or 1;

f)



and edible salts thereof; selected from N-geranoyl-Met, N-palmitoyl-Met, N-palmitenoyl-Met, N-stearoyl-Met, N-linoleoyl-Met and N-linolenoyl-Met and

g)



and edible salts thereof;

wherein

R_1 is an alkyl residue containing 6 to 20 carbon atoms, or an alkene residue containing from 9 to 25 carbon atoms with 1 to 6 double bonds, R_1 together with the carbonyl group to which it is attached is a residue of a carboxylic acid, and NR_2R_3 , in which R_3 is H or together with R_2 and the N-atom to which they are attached, a 5-membered ring, is a residue of an amino acid, in particular a proteinogenic amino acid, ornithine, gamma–aminobutyric acid or beta alanine, or a 1-amino cycloalkyl carboxylic acid.

2. Use according to claim 1 wherein the compound is selected from the group consisting of N-palmitoyl 1-amino-cyclopropyl carboxylic acid (C16:0-ACCA), N-stearoyl 1-amino-cyclopropyl carboxylic acid (C18:0-ACCA), N-linoleoyl 1-amino-cyclopropyl carboxylic acid (C18:2-ACCA), N-linolenoyl 1-amino-cyclopropyl carboxylic acid (C18:2-ACCA), N-oleoyl 1-amino-cyclopropyl carboxylic acid (C18:1-ACCA), N-(9-palmitenoyl) 1-amino-cyclopropyl carboxylic acid (C16:1-ACCA), N-decanoyl 1-amino-cyclopropyl carboxylic acid (C10:0-ACCA) and N-geranoyl 1-amino-cyclopropyl carboxylic acid (C10:2-ACCA); C10-GABA, C12-GABA, more particularly C12:1-GABA, C14-GABA, C16-GABA, more particularly C16:1-GABA, C18-GABA, more particularly C18:1-GABA, still more particularly C18:1c-GABA and C18:1t-GABA, and 18:2-GABA; C18:2-Beta Ala; N-palmitenoyl-L-leucine, N-palmitoyl-L-leucine, N-linolenoyl-L-leucine, N-linoleoyl-L-leucine and N-oleoyl-L-leucine; N-oleoyl-Ile; N-palmitenoyl-L-valine, N-palmitoyl-L-valine, N-linolenoyl-L-valine, N-linoleoyl-L-valine and N-oleoyl-L-valine; N-geranoyl-Pro, N-palmiteneoyl-

Pro, N-stearoyl-Pro, N-linoleoyl-Pro and N-linolenoyl-Pro; N-geranoyl-Glu, N-palmitoyl-Glu, N-palmitenoyl-Glu, N-stearoyl-Glu,N- linoleoyl-Glu and N-linolenoyl-Glu.; N-geranoyl-Asp, N-palmitoyl-Asp, N-palmitenoyl-Asp, N-stearoyl-Asp, N-linoleoyl-Asp and N- linolenoyl-Asp; N-geranoyl-Gln, N-palmitoyl-Gln, N-palmitenoyl-Gln, N-stearoyl-Gln, N-linoleoyl-Gln and N- linolenoyl-Gln; N-geranoyl-Asn, N-palmitoyl-Asn, N-palmitenoyl-Asn, N-stearoyl-Asn, N-linoleoyl-Asn and N-linolenoyl-Asn; N-geranoyl-Met, N-palmitoyl-Met, N-palmitenoyl-Met, N-stearoyl-Met, N-linoleoyl-Met and N-linolenoyl-Met; N-palmitoyl-Ser, N-palmitenoyl-Ser, N-stearoyl-Ser, N-linoleoyl-Ser and N-linolenoyl-Ser; N-octanoyl-L-phenylalanine, , N-eicosanoyl-L-phenylalanine, N-palmitoleoyl-L-phenylalanine, N-palmitoyl-L-phenylalanine , N-linolenoyl-L-phenylalanine , N-linoleoyl-L-phenylalanine, N-oleoyl-L-phenylalanine, N-SDA-L-phenylalanine, N-DPA-L-phenylalanine, and N-tetracosahexaenoyl-L-phenylalanine; N-palmitoyl-L-alanine, N-linolenoyl-L-alanine, N-linoleoyl-L-alanine;N-palmitoyl-L-tyrosine, N-linoleoyl-L-tyrosine, N-oleoyl-L-tyrosine, N-linolenoyl-L-tyrosine; N-palmitoyl-L-tryptophan, N-linolenoyl-L-tryptophan, N-linoleoyl-L-tryptophan; and N-linoleoyl-glycine.

3. An edible composition according to claim 1 comprising an ingredient that has associated with its use an undesired taste or off-taste.

4. An edible composition according to claim 3 wherein the ingredient that has associated with its use an undesired or off-taste is selected from the group consisting of flavanoids, polyphenols, peptides, minerals, terpenes, caffeine, taurine, carnitine, glucorolactone, guarana, vitamins, minerals, amino acids, proteins or protein analogs, peptides, antioxidants, sugar substitutes selected from natural or synthetic high intensity sweeteners, dairy substitutes (soy, rice), pharmacological actives (both Rx and OTC), enzyme modified cheese, oral care actives selected from mouthwash, toothpaste, chlorohexidine (gluconate), cetyl pyridinium chloride, tego-betaine and metal salts selected from stannous salts and zinc salts, whey, casein, tannins, coffee and tea products, preservatives selected from sodium benzoate and potassium sorbate.

5. An edible composition according to claim 4 wherein said ingredient is a carbohydrate sweetener, selected from sucrose, high fructose corn syrup, fructose and glucose, or high intensity, non-nutritive sweeteners selected from aspartame, acesulfame K, sucralose, cyclamate, sodium saccharin, neotame, rebaudioside A

6. An edible composition according to claim 4 wherein the ingredient is a soy-based ingredient.

7. An edible composition according to claim 3 in the form of a caloric or non-caloric beverage containing carbohydrate sweeteners, selected from sucrose, high fructose corn syrup, fructose and glucose, or high intensity, non-nutritive sweeteners selected from aspartame, acesulfame K, sucralose, cyclamate, sodium saccharin, neotame, rebaudioside A, and/or other stevia-based sweeteners.

8. An edible composition according to claim 3 containing a soy-protein.