**Description**

**A COMPOSITION COMPRISING SYNTHETIC COMPONENTS THAT EXHIBIT ANTI-VIRAL ACTION**

**Technical Field**

The invention relates to a composition formed for exhibiting anti-viral action.

**State of the Art**

According to the invention no. EP1441735B1 entitled “N-substituted hydroxypyrimidinone carboxamide inhibitors of HIV integrase”, N-substituted 5-hydroxy-6-oxo-1,6-dihydropyrimidine-4-carboxamides of formula (I) are described as inhibitors of HIV integrase and inhibitors of HIV replication, wherein R1, R2, R3 and R4 are defined herein. These compounds are useful in the prevention and treatment of infection by HIV and in the prevention, delay in the onset, and treatment of AIDS. The compounds are employed against HIV infection and AIDS as compounds per se or in the form of pharmaceutically acceptable salts. The compounds and their salts can be employed as ingredients in pharmaceutical compositions, optionally in combination with other antivirals, immunomodulators, antibiotics or vaccines. Methods of preventing, treating or delaying the onset of AIDS and methods of preventing or treating infection by HIV are also described.

Further, the invention no. EP1265873B1 entitled "4-oxo-1,4-dihydro-3-cinnolinecarboxamides as antiviral agents" provides novel cinnolines, which are useful as antiviral agents (e.g. as agents against viruses of the herpes family).

Further, the invention no. EP1274713B1 entitled "Anti-viral pyrimidine nucleoside analogues" pertains to a compound having the formula (I) wherein Ar is an, optionally substituted, aromatic ring system, the aromatic ring system comprising one six-membered aromatic ring or two fused six-membered aromatic rings; R8 and R9 are each selected from hydrogen, alkyl, cycloalkyl, halogens, amino, alkylamino, nitro, cyano, alkyloxy, aryloxy, thiol, alkylthiol, arylthiol and aryl; Q is selected from O, S and CY2; X is selected from O, NH, S, N-alkyl, (CH2)m and CY2; Z is selected from O, NH, S, N-alkyl; U'' is H and U' is selected from H and CH2T, or U' and U'' are joined so as to form a ring moiety including Q selected from (a) and (b); wherein the other variables are as described the specification, with the proviso that when T is OAc and T' and T'' are present and are H, Ar is not 4-(2-benzoxazolyl)phenyl. These compounds exhibit anti-viral activity against the varicella zoster virus for instance.

As a result, the presence of the need for a composition for exhibiting anti-viral action and the inadequacy of the existing solutions have made it necessary to perform an improvement in the relevant art.

**Object of the Invention**

In order to eliminate the disadvantages of the state of the art, an object of the invention is to enable the suppression of RNA replicase.

Another object of the invention is to enable the suppression of neuroaminidase.

Another object of the invention is to enable the suppression of integrase.

Another object of the invention is to enable the suppression of RNA polymerase.

Another object of the invention is to enable the suppression of protease.

Another object of the invention is to enable the suppression of DNA gyrase.

In order to achieve the aforesaid advantages, the invention is a composition for exhibiting anti-viral action, said composition being obtained by the components selected from the group comprising 5-​[(3S)-​3-​trihydroxy-​4-​diphenyl-​1-​buten-​1-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-protobiocide, 3-​[(3S)-​3-​trimethoxy-​4-​diphenyl-​1-​buten-​2-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-​​protobiocide that are used individually or in combinations.

The structural and characteristic features and all the advantages of the invention will become more clearly understood from the detailed description provided below and therefore, the evaluation must be made taking this detailed description into consideration.

**Detailed Description of the Invention**

The invention is a composition formed for exhibiting anti-viral action. Said invention enables the suppression of RNA replicase, the suppression of neuroaminidase, the suppression of integrase, the suppression of RNA polymerase, the suppression of protease and the suppression of DNA gyrase.

The composition according to the invention contains 5-​[(3S)-​3-​trihydroxy-​4-​diphenyl-​1-​buten-​1-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-protobiocide, 3-​[(3S)-​3-​trimethoxy-​4-​diphenyl-​1-​buten-​2-​yl]1-​[6-​(2H-​tetrazol-​5R-​yl)hexyl]-​​protobiocide.

Said composition is obtained by a mixture of the aforesaid components according to the following ratios by weight:

1-99% 5-​[(3S)-​3-​trihydroxy-​4-​diphenyl-​1-​buten-​1-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-protobiocide,

99-1% 3-​[(3S)-​3-​trimethoxy-​4-​diphenyl-​1-​buten-​2-​yl]1-​[6-​(2H-​tetrazol-​5R-​yl)hexyl]-​​protobiocide.

The composition is obtained from the aforesaid components selected from the aforesaid group and used according to the mentioned weight ratio ranges individually or in combinations.

Said invention also encompasses the use of said composition for exhibiting anti-viral action and the manufacture thereof for this purpose.

**CLAIMS**

1. A composition for exhibiting anti-viral action, said composition being obtained by the components selected from the group comprising 5-​[(3S)-​3-​trihydroxy-​4-​diphenyl-​1-​buten-​1-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-protobiocide, 3-​[(3S)-​3-​trimethoxy-​4-​diphenyl-​1-​buten-​2-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-​​protobiocide that are used individually or in combinations.
2. A composition according to Claim 1 characterized in that it comprises 1-99% by weight 5-​[(3S)-​3-​trihydroxy-​4-​diphenyl-​1-​buten-​1-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexy]-protobiocide.
3. A composition according to Claim 1 characterized in that it comprises 99-1% by weight 3-​[(3S)-​3-​trimethoxy-​4-​diphenyl-​1-​buten-​2-​yl]1-​[6-​(2H-​tetrazol-​5R-​yl)hexyl]-​​protobiocide.
4. Use of the components according to Claims 1 to 3 obtained individually or in combinations selected from the group consisting of 5-​[(3S)-​3-​trihydroxy-​4-​diphenyl-​1-​buten-​1-yl]1-​[6-​(2H-​tetrazol-​5R-yl)hexyl]-protobiocide, 3-​[(3S)-​3-​trimethoxy-​4-​diphenyl-​1-​buten-​2-​yl]1-​[6-​(2H-​tetrazol-​5R-​yl)hexyl]-​​protobiocide for the manufacture of a composition for exhibiting anti-viral action.

**ABSTRACT**

**A COMPOSITION COMPRISING SYNTHETIC COMPONENTS THAT EXHIBIT ANTI-VIRAL ACTION**

The invention relates to a composition formed for exhibiting anti-viral action.

No figure.