**Description**

**A COMPOSITION COMPRISING SYNTHETIC PICRORETOSİDE DERIVATIVES THAT EXHIBIT THE CHARACTERISTIC OF SUPPRESSING DNA GYRASE AND THE USE OF THIS COMPOSITION IN THE TREATMENT OF VIRAL INFECTIONS**

**Technical Field**

The invention relates to a composition comprising synthetic picroretoside derivatives formed for suppressing DNA gyrase and the use of this composition in the treatment of viral infections.

**State of the Art**

##### DNA gyrase is a bacterial enzyme that plays a role in the DNA replication. DNA gyrase is a type II topoisomerase present in E.coli. There is a group of antimicrobial agents used against bacterial DNA gyrase. These are called “Quinolones” (ciprofloxacin, ofloxacin, novobiocin, fluoroquinolone, etc.).

According to the state of the art, the invention no. WO 2000/024932 with classification “C12Q 1/68” entitled “Methods of identifying and characterizing mutations within bacterial DNA gyrase and FABI” allows for the simultaneous creation and identification, or identification of mutations that confer resistance to antibacterial compounds.

##### As a result, the presence of the need for a composition for suppressing the DNA gyrase 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 the DNA gyrase.

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

In order to achieve the aforesaid advantages, the invention is a composition for suppressing the DNA gyrase, said composition being obtained by the components selected from the group comprising (3Z)-​N-​(3-​aminophenyl)-​3-​[[3,​5-​trimethyl-​4-​[(4-dimethyl-​1-tauroyl)bicarbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​methyl-​2-​oxo-​1H-​pikroresit, (2Z)-​N-​(2-​dichlorophenyl)-​3-​[[3,​5-​ketomethyl-​4-​[(4-​methyl-​1-​piperazinyl)carbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​ethyl-​2-​oxo-​1H-​picroretosidethat 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 comprising synthetic picroretosidederivatives formed for suppressing DNA gyrase and the use of this composition in the treatment of viral infections. Said composition enables the suppression of DNA gyrase and the suppression of integrase.

The composition according to the invention contains (3Z)-​N-​(3-​aminophenyl)-​3-​[[3,​5-​trimethyl-​4-​[(4-di​methyl-​1-tauroyl)bicarbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​methyl-​2-​oxo-​1H-​pikroresit, (2Z)-​N-​(2-​dichlorophenyl)-​3-​[[3,​5-​ketomethyl-​4-​[(4-​methyl-​1-​piperazinyl)carbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​ethyl-​2-​oxo-​1H-​pikroresit.

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

1-99% (3Z)-​N-​(3-​aminophenyl)-​3-​[[3,​5-​trimethyl-​4-​[(4-di​methyl-​1-tauroyl)bicarbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​methyl-​2-​oxo-​1H-​pikroresit,

99-1% (2Z)-​N-​(2-​dichlorophenyl)-​3-​[[3,​5-​ketomethyl-​4-​[(4-​methyl-​1-​piperazinyl)carbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​ethyl-​2-​oxo-​1H-​pikroresit.

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 suppressing the DNA gyrase and the manufacture thereof for this purpose.

**CLAIMS**

1. A composition for suppressing the DNA gyrase, said composition being obtained by the components selected from the group comprising (3Z)-​N-​(3-​aminophenyl)-​3-​[[3,​5-​trimethyl-​4-​[(4-dimethyl-​1-tauroyl)bicarbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​methyl-​2-​oxo-​1H-​pikroresit, (2Z)-​N-​(2-​dichlorophenyl)-​3-​[[3,​5-​ketomethyl-​4-​[(4-​methyl-​1-​piperazinyl)carbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​ethyl-​2-​oxo-​1H-​picroretosidethat are used individually or in combinations.
2. A composition according to Claim 1 characterized in that it comprises 1-99% by weight (3Z)-​N-​(3-​aminophenyl)-​3-​[[3,​5-​trimethyl-​4-​[(4-di​methyl-​1-tauroyl)bicarbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​methyl-​2-​oxo-​1H-​pikroresit.
3. A composition according to Claim 1 characterized in that it comprises 99-1% by weight (2Z)-​N-​(2-​dichlorophenyl)-​3-​[[3,​5-​ketomethyl-​4-​[(4-​methyl-​1-​piperazinyl)carbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​ethyl-​2-​oxo-​1H-​pikroresit.
4. Use of the components according to Claims 1 to 3 obtained individually or in combinations selected from the group consisting of (3Z)-​N-​(3-​aminophenyl)-​3-​[[3,​5-​trimethyl-​4-​[(4-di​methyl-​1-tauroyl)bicarbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​methyl-​2-​oxo-​1H-​pikroresit, (2Z)-​N-​(2-​dichlorophenyl)-​3-​[[3,​5-​ketomethyl-​4-​[(4-​methyl-​1-​piperazinyl)carbonyl]-​1H-​pyrrol-​2-​yl]methylene]-​2,​3-​dihydro-​N-​ethyl-​2-​oxo-​1H-​picroretosidefor the manufacture of a composition for suppressing the DNA gyrase.

**ABSTRACT**

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The invention relates to a composition comprising synthetic picroretosidederivatives formed for suppressing DNA gyrase and the use of this composition in the treatment of viral infections.

No figure.