**Description**

**A COMPOSITION COMPRISING SYMPLORACEMOSINE DERIVATIVES THAT EXHIBIT THE CHARACTERISTIC OF SUPPRESSING RNA HELICASE AND THE USE OF THIS COMPOSITION AS ANTI-VIRAL TREATMENT**

**Technical Field**

The invention relates to a composition comprising symploracemosine derivatives formed for suppressing RNA helicase and the use of this composition as anti-viral treatment.

**State of the Art**

Helicases comprise an enzyme class that is of vital importance for all the living beings. They act on the phosphodiester backbone of the nucleic acids to separate the nucleic acid strands (of DNA, RNA or RNA-DNA hybrids) that are connected to each other via hydrogen bonds. For this purpose, they use the energy released from the hydrolysis of ATP. Hemagglutinin is a glycoprotein present in the envelope of the influenza virus. It enables the virus to adhere to the cell. The influenza vaccines were developed against these molecules. The viruses carrying only the h1, h2, h3 types of the hemagglutinin antigen are known to cause the influenza disease and secretions in human. Esterase is a hydrolase type enzyme that enables the esters to undergo chemical reaction with one water molecule to produce one acid and one alcohol molecule from these. There are different esterase types with various substrate specificities, protein structures and biological functions.

According to the state of the art, the invention no. EP2364166B1 with classification “A61K 38/48” entitled “Suppression of cancer” relates to the polypeptides suitable for use in the suppression of cancer and the cancer-related health problems. For the treatment, the use is made of a non-cytotoxic protease targeted at the cancer cell wherein this protease is internalized after delivered in this manner and it inhibits the secretion from the cancer cell.

As a result, the presence of the need for a composition for suppressing RNA helicase 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 helicase.

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

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

In order to achieve the aforesaid advantages, the invention is a composition for suppressing RNA helicase, said composition being obtained by the components selected from the group comprising 2-​(1H-​glucopyranosyl-​4-​yl)-​6-​[[4-​(methylsulfonyl)-​1-hexacoumaroyl]methyl]-​4-​(4-​dichlorophenyl)-​thieno[3,​2-​d]-symploracemosine-phenyl-ester, 2-​(1H-​rhamnosyl-​2-yl)-​6-​[[4-​(dimethylsulfonyl)-​1-​monocoumaroyl]methyl]-​4-​(4-​morpholinyl)-​thieno[3,​2-​d]-propionyl-symploracemosine-ethyl-ester 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 comprising symploracemosine derivatives formed for suppressing RNA helicase and the use of this composition as anti-viral treatment. Said composition enables the suppression of RNA helicase, the suppression of protease and the suppression of RNA replicase.

The composition according to the invention contains 2-​(1H-​glucopyranosyl-​4-​yl)-​6-​[[4-​(methylsulfonyl)-​1-hexacoumaroyl]methyl]-​4-​(4-​dichlorophenyl)-​thieno[3,​2-​d]-symploracemosine-phenyl-ester, 2-​(1H-​rhamnosyl-​2-​yl)-​6-​[[4-​(dimethylsulfonyl)-​1-​monocoumaroyl]methyl]-​4-​(4-​morpholinyl)-​thieno[3,​2-​d]-propionyl-symploracemosine-ethyl-ester.

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

1-99% 2-​(1H-​glucopyranosyl-​4-​yl)-​6-​[[4-​(methylsulfonyl)-​1-hexacoumaroyl]methyl]-​4-​(4-​dichlorophenyl)-​thieno[3,​2-​d]-symploracemosine-phenyl-ester,

99-1% 2-​(1H-​rhamnosyl-​2-​yl)-​6-​[[4-​(dimethylsulfonyl)-​1-​monocoumaroyl]methyl]-​4-​(4-​morpholinyl)-​thieno[3,​2-​d]-propionyl-symploracemosine-ethyl-ester.

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 RNA helicase and the manufacture thereof for this purpose.

**CLAIMS**

1. A composition for suppressing RNA helicase, said composition being obtained by the components selected from the group comprising 2-​(1H-​glucopyranosyl-​4-​yl)-​6-​[[4-​(methylsulfonyl)-​1-hexacoumaroyl]methyl]-​4-​(4-​dichlorophenyl)-​thieno[3,​2-​d]-symploracemosine-phenyl-ester, 2-​(1H-​rhamnosyl-​2-yl)-​6-​[[4-​(dimethylsulfonyl)-​1-​monocoumaroyl]methyl]-​4-​(4-​morpholinyl)-​thieno[3,​2-​d]-propionyl-symploracemosine-ethyl-ester that are used individually or in combinations.
2. A composition according to Claim 1 characterized in that it comprises 1-99% by weight 2-​(1H-​glucopyranosyl-​4-​yl)-​6-​[[4-​(methylsulfonyl)-​1-hexacoumaroyl]methyl]-​4-​(4-​dichlorophenyl)-​thieno[3,​2-​d]-symploracemosine-phenyl-ester.
3. A composition according to Claim 1 characterized in that it comprises 99-1% by weight 2-​(1H-​rhamnosyl-​2-​yl)-​6-​[[4-​(dimethylsulfonyl)-​1-​monocoumaroyl]methyl]-​4-​(4-​morpholinyl)-​thieno[3,​2-​d]-propionyl-symploracemosine-ethyl-ester.
4. Use of the components according to Claims 1 to 3 obtained individually or in combinations selected from the group consisting of 2-​(1H-​glucopyranosyl-​4-​yl)-​6-​[[4-​(methylsulfonyl)-​1-hexacoumaroyl]methyl]-​4-​(4-​dichlorophenyl)-​thieno[3,​2-​d]-symploracemosine-phenyl-ester, 2-​(1H-​rhamnosyl-​2-​yl)-​6-​[[4-​(dimethylsulfonyl)-​1-​monocoumaroyl]methyl]-​4-​(4-​morpholinyl)-​thieno[3,​2-​d]-propionyl-symploracemosine-ethyl-ester for the manufacture of a composition for suppressing RNA helicase.

**ABSTRACT**

**A COMPOSITION COMPRISING SYMPLORACEMOSINE DERIVATIVES THAT EXHIBIT THE CHARACTERISTIC OF SUPPRESSING RNA HELICASE AND THE USE OF THIS COMPOSITION AS ANTI-VIRAL TREATMENT**

The invention relates to a composition comprising symploracemosine derivatives formed for suppressing RNA helicase and the use of this composition as anti-viral treatment.

No figure.