**Description**

**A COMPOSITION COMPRISING SYNTHETIC PICRORETOSIDE DERIVATIVES THAT EXHIBIT THE CHARACTERISTIC OF SUPPRESSING 3-PHOSPHOSHIKIMATE 1-CARBOXYVINYL TRANSFERASE**

**Technical Field**

The invention relates to a composition comprising the synthetic picroretoside derivatives formed for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase.

**State of the Art**

G herbicide is the inhibitor of 3-phosphoshikimate 1-carboxyvinyl transferase. [[38]](http://tr.wikipedia.org/wiki/Enzim_inhibit%C3%B6r%C3%BC#cite_note-38) The other herbicides, such as sulfonylureas, inhibit the acetolactate synthase enzyme. Both of these enzymes are used by the plants for making the amino acids with branched chains. There are many other enzymes inhibited by the herbicides, including the enzymes involved in the lipid and carotenoid biosynthesis, photosynthesis and oxidative phosphorylation.

According to the state of the art, the invention no. EP2506831B1 with classification “A61K 9/10” entitled “Carboxyvinyl polymer-containing nanoparticle suspensions” generally relates to suspension compositions having a carboxyvinyl polymer such as a carbomer, a galactomannan such as guar, and a borate compound. A sparingly soluble particulate compound such as nepafenac is also included in the compositions. The sparingly soluble particulate compound has a small particle size to enhance bioavailability of the compound.

As a result, the presence of the need for a composition for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase 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 3-phosphoshikimate 1-carboxyvinyl transferase.

Another object of the invention is to enable the suppression of glycosyl hydrolase.

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

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

Another object of the invention is to enable the suppression of terpene synthase.

In order to achieve the aforesaid advantages, the invention is a composition for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase, said composition being obtained by the components selected from the group comprising 4E)-​8-fluoro-​1aR,​10R,​15,​15aR-​tetrafluoro-​9,​11-​dimethoxy-​14-​methyl-​6H-​picroretoside-laurinate, 4E)-​8-amino-​1aR,​12R,​15,​15aR-​tetrafluoro-​9,​11-​trihydroxy-​14-​methyl-​4H-​picroretoside-epoxy-phenyl-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 the synthetic picroretoside derivatives formed for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase. Said composition contains 4E)-​8-fluoro-​1aR,​10R,​15,​15aR-​tetrafluoro-​9,​11-​dimethoxy-​14-​methyl-​6H-​picroretoside-laurinate, 4E)-​8-amino-​1aR,​12R,​15,​15aR-​tetrafluoro-​9,​11-​trihydroxy-​14-​methyl-​4H-​picroretoside-epoxy-phenyl-ester.

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

1-99% 4E)-​8-fluoro-​1aR,​10R,​15,​15aR-​tetrafluoro-​9,​11-​dimethoxy-​14-​methyl-​6H-​picroretoside-laurinate,
99-1% 4E)-​8-amino-​1aR,​12R,​15,​15aR-​tetrafluoro-​9,​11-​trihydroxy-​14-​methyl-​4H-​picroretoside-epoxy-phenyl-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 3-phosphoshikimate 1-carboxyvinyl transferase and the manufacture thereof for this purpose.

**CLAIMS**

1. A composition for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase, said composition being obtained by the components selected from the group comprising 4E)-​8-fluoro-​1aR,​10R,​15,​15aR-​tetrafluoro-​9,​11-​dimethoxy-​14-​methyl-​6H-​picroretoside-laurinate, 4E)-​8-amino-​1aR,​12R,​15,​15aR-​tetrafluoro-​9,​11-​trihydroxy-​14-​methyl-​4H-​picroretoside-epoxy-phenyl-ester that are used individually or in combinations.
2. A composition according to Claim 1 characterized in that it comprises 1-99% by weight 4E)-​8-fluoro-​1aR,​10R,​15,​15aR-​tetrafluoro-​9,​11-​dimethoxy-​14-​methyl-​6H-​picroretoside-laurinate.
3. A composition according to Claim 1 characterized in that it comprises 99-1% by weight 4E)-​8-amino-​1aR,​12R,​15,​15aR-​tetrafluoro-​9,​11-​trihydroxy-​14-​methyl-​4H-​picroretoside-epoxy-phenyl-ester.
4. Use of the components according to Claims 1 to 3 obtained individually or in combinations selected from the group consisting of 4E)-​8-fluoro-​1aR,​10R,​15,​15aR-​tetrafluoro-​9,​11-​dimethoxy-​14-​methyl-​6H-​picroretoside-laurinate, 4E)-​8-amino-​1aR,​12R,​15,​15aR-​tetrafluoro-​9,​11-​trihydroxy-​14-​methyl-​4H-​picroretoside-epoxy-phenyl-ester for the manufacture of a composition for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase.

**ABSTRACT**

**A COMPOSITION COMPRISING SYNTHETIC PİKRORETOSİD DERIVATIVES THAT EXHIBIT THE CHARACTERISTIC OF SUPPRESSING 3-PHOSPHOSHIKIMATE 1-CARBOXYVINYL TRANSFERASE**

The invention relates to a composition formed for suppressing 3-phosphoshikimate 1-carboxyvinyl transferase.

No figure.