as a medicinal agent.

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SUMMARY OF THE DISCLOSURE

Problems to be Solved by the Disclosure

The present disclosure is made in view of the above circumstances, and an objective of the present disclosure is to provide a novel injectable agent having superior sustained-releasability of a medicinal agent.

In one aspect, there is provided an injectable agent comprising a medicinal agent, trehalose and gellan gum, wherein the content of the medicinal agent is 0.0001 to 50.00% (w/v), and the content of trehalose is 0.1 to 50.0% (w/v), and the content of gellan gum is 0.01 to 3.00 %(w/v) relative to the total volume of the injectable agent.

In another aspect, there is provided the use of an agent comprising a medicinal agent, trehalose and gellan gum in the manufacture of a medicament for delivery of said medicinal agent, said medicament being an injectable agent and is to be contacted with a body fluid.

In another aspect, there is provided a method of forming a depot, the method comprising: exposing a liquid composition comprising a medicinal agent, trehalose and gellan gum to a pseudo-body fluid or a phosphate buffer solution.

Means for Solving the Problems

(1) An injectable agent comprising a medicinal agent, trehalose and gellan gum.

(2) The injectable agent according to (1), wherein the content of the medicinal agent is 0.0001 to 50.00% (w/v), and the content of trehalose is 0.1 to 50.0% (w/v), and the content of gellan gum is 0.01 to 3.00%(w/v) relative to the total volume of the injectable agent.

(3) The injectable agent according to (1) or (2), wherein the injectable agent forms a depot upon exposure to a phosphate buffer solution, a body fluid or a pseudo-body fluid.

(4) The injectable agent according to any one of (1) to (3), wherein the injectable agent is intended for intravitreal administration.

(5) The injectable agent according to any one of (1) to (4), wherein the injectable agent is used to deliver the

medicinal agent to retina and choroid.

(6) A method of forming a depot, the method comprising: exposing a liquid composition comprising a medicinal agent, trehalose and gellan gum to a body fluid, a pseudo-body fluid or a phosphate buffer solution.

Effects of the Disclosure

According to the present disclosure, an injectable agent having superior sustained-releasability of a medicinal agent can be provided by virtue of including a combination of trehalose and gellan gum in addition to the medicinal agent.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 shows a depot formed after intravitreal administration of the injectable agent according to one Example of the present invention.

PREFERRED MODE FOR CARRYING OUT THE INVENTION

Below, embodiments of the present invention will be described, but the present invention shall not be limited to these.

The injectable agent according to the present invention contains a medicinal agent, trehalose and gellan gum. An injectable agent having superior sustained-releasability of a medicinal agent can be provided by virtue of including a combination of trehalose and gellan gum in addition to the medicinal agent. The present inventors find that trehalose can not only increase the wettability of a medicinal agent (in

CLAIMS

1. An injectable agent comprising a medicinal agent, trehalose and gellan gum, wherein the content of the medicinal agent is 0.0001 to 50.00% (w/v), and the content of trehalose is 0.1 to 50.0% (w/v), and the content of gellan gum is 0.01 to 3.00% (w/v) relative to the total volume of the injectable agent.

2. The injectable agent according to claim 1, wherein the content of the medicinal agent is 0.05 to 40.00 % (w/v), and the content of trehalose is 1.0 to 20.0 % (w/v), and the content of gellan gum is 0.10 to 1.0 % (w/v) relative to the total volume of the injectable agent.

3. The injectable agent according to claim 1 or 2, wherein the injectable agent forms a depot upon exposure to a phosphate buffer solution, a body fluid, or a pseudo-body fluid.

4. The injectable agent according to any one of claims 1 to 3, wherein the injectable agent is intended for intravitreal administration.

5. Use of an agent comprising a medicinal agent, trehalose and gellan gum in the manufacture of a medicament for delivery of said medicinal agent, said medicament being an injectable agent and is to be contacted with a body fluid.

6. A method of forming a depot, the method comprising: exposing a liquid composition comprising a medicinal agent,

trehalose and gellan gum to a pseudo-body fluid or a phosphate buffer solution.