motor and sensory areas. Furthermore, they have demonstrated that administration of MSCs in a vascular dementia model rat improves the cognitive function. In one aspect, the present disclosure refers to the use of CD24-negative mesenchymal stem cells derived from human bone marrow or blood in the manufacture of a medicament for treating a disease selected from the group consisting of a chronic phase of cerebral infarction, and a chronic phase of spinal cord injury, wherein the cells are to be administered at least 150 days after onset of the cerebral infarction. In another aspect, the present disclosure refers to the use of CD24-negative mesenchymal stem cells derived from human bone marrow or blood in the manufacture of a medicament for treating a disease selected from the group consisting of a chronic phase of cerebral infarction, and a chronic phase of spinal cord injury, by promoting brain plasticity , wherein the cells are to be administered at least 150 days after onset of the cerebral infarction.

[0010]

Accordingly, the present disclosure relates to the following (1) to (14).

(1) A synapse formation agent comprising CD24-negative mesenchymal stem cells derived from human bone marrow or blood.

(2) The synapse formation agent according to (1) above, wherein the cells are positive for at least one or more

Claims

[Claim 1]

Use of CD24-negative mesenchymal stem cells derived from human bone marrow or blood in the manufacture of a medicament for treating a disease selected from the group consisting of a chronic phase of cerebral infarction, and a chronic phase of spinal cord injury, wherein the cells are to be administered at least 150 days after onset of the cerebral infarction.

[Claim 2]

The use according to claim 1, wherein the cells are positive for at least one or more selected from CD73, CD90, CD105, and CD200 and/or negative for at least one or more selected from CD19, CD34, CD45, CD74, CD79α, and HLA-DR.

[Claim 3]

The use according to claim 1 or 2, wherein the human bone marrow or blood is bone marrow or blood of a patient receiving administration of the medicament.

[Claim 4]

The use according to any one of claims 1 to 3, wherein the cells have been proliferated and enriched in a medium containing human serum.

[Claim 5]

The use according to claim 4, wherein the human serum is autologous serum of a patient receiving the medicament.

[Claim 6]

The use according to any one of claims 1 to 5, wherein the medicament is a formulation for intravenous administration, a formulation for lumber puncture administration, a formulation for intracerebral administration, a formulation for intracerebroventricular administration, a formulation for local administration, or a formulation for intraarterial administration.

[Claim 7]

The use according to any one of claims 1 to 5, wherein the medicament is a formulation for intravenous administration.

[Claim 8]

The use according to any one of claims 1 to 7, wherein the cells have been proliferated and enriched in a medium containing no anticoagulant or an anticoagulant at less than 0.02 U/mL.

[Claim 9]

The use according to claim 8, wherein the anticoagulant is heparin, a heparin derivative, or a salt thereof.

[Claim 10]

The use according to claim 8 or 9, wherein the human bone marrow or blood has been prepared such that an amount of the anticoagulant added at the time of collection is less than 0.2 U/mL based on the volume of the bone marrow or blood.

[Claim 11]

Use of CD24-negative mesenchymal stem cells derived from human bone marrow or blood in the manufacture of a medicament for treating a disease selected from the group consisting of a chronic phase of cerebral infarction, and a chronic phase of spinal cord injury, by promoting brain plasticity, wherein the cells are to be administered at least 150 days after onset of the cerebral infarction.

[Claim 12]

The use according to claim 11, wherein the cells have been proliferated and enriched in a medium containing human serum.

[Claim 13]

The use according to claim 11 or 12, wherein the human bone marrow or blood is bone marrow or blood of a patient receiving administration of the medicament, and the human serum is autologous serum of a patient receiving the medicament.

[Claim 14]

The use according to any one of claims 11 to 13, wherein the medicament is a formulation for intravenous administration.

[Claim 15]

The use according to any one of claims 11 to 14, wherein the cells have been proliferated and enriched in a medium containing no anticoagulant or an anticoagulant at less than 0.02 U/mL.

[Claim 16]

The use according to claim 15, wherein the anticoagulant is heparin, a heparin derivative, or a salt thereof.

[Claim 17]

The use according to claim 15 or 16, wherein the human bone marrow or blood has been prepared such that an amount of the anticoagulant added at the time of collection is less than 0.2 U/mL based on the volume of the bone marrow or blood.