Abstract

METHOD FOR MANUFACTURING TELENCEPHALON OR PROGENITOR TISSUE THEREOF

The present invention provides a method of producing more mature telencephalon or a progenitor tissue thereof, in vitro, from mammalian pluripotent stem cells, comprising obtaining a telencephalon marker-positive aggregate by culturing an aggregate of pluripotent stem cells in suspension in the presence of a Wnt signal inhibitor and a TGFβ signal inhibitor, and further culturing the telencephalon marker-positive aggregate in suspension under a high oxygen partial pressure condition. In one embodiment, the suspension culture under a high oxygen partial pressure condition is performed in the presence of a Wnt signal enhancer and a bone morphogenetic factor signal transduction pathway activating substance.

(No drawing to be published)