

ABSTRACT

Naïve pluripotent stem cells are produced at high efficiency. A method for producing naïve pluripotent stem cells, wherein the method includes the following steps: (1) a step that cultures primed pluripotent stem cells in primed pluripotent stem cell culture medium; and (2) a step that cultures the cells obtained in step (1) in naïve pluripotent stem cell culture medium, including at least one of the following steps: (i) a step that introduces miRNA selected from miRNA belonging to the let-7 miRNA family and similar sequences thereto into the cells cultured in steps (1) or (2) or causes said miRNA to be expressed in said cells; or, a step that introduces an activity inhibitor of a let-7 miRNA family target protein into the cells cultured in steps (1) or (2) or causes said activity inhibitor to be expressed in said cells; and (ii) a step that introduces a bone morphogenetic protein into the cells cultured in steps (1) or (2), causes said bone morphogenetic protein to be expressed in said cells, or adds said bone morphogenetic protein to the medium of (1) or (2); or a step that adds a bone morphogenetic protein activator to the medium of steps (1) or (2).

[No suitable figure]