

Abstract

PRODUCTION METHOD FOR NERVE TISSUE

5 The present invention provides a method for producing
neural cells or a neural tissue, including the following steps
(1) - (3):

(1) a first step of culturing pluripotent stem cells in the
absence of feeder cells and in a medium containing 1) a TGF β
10 family signal transduction pathway inhibiting substance and/or
a Sonic hedgehog signal transduction pathway activating
substance, and 2) a factor for maintaining undifferentiated
state,

(2) a second step of culturing the cells obtained in the first
15 step in suspension to form a cell aggregate, and

(3) a third step of culturing the aggregate obtained in the
second step in suspension in the presence or absence of a
differentiation-inducing factor to obtain an aggregate
containing neural cells or a neural tissue.

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Figure 4