Abstract

METHOD FOR PRODUCING ANTERIOR EYE SEGMENT TISSUE

The present invention provides a production method of a cell aggregate containing an anterior eye segment tissue or a partial structure thereof, or a precursor tissue thereof, including culturing pluripotent stem cell aggregates in suspension in the presence of a bone morphogenic factor signal transduction pathway activating substance to induce self-organization of an anterior eye segment tissue or a partial structure thereof, or a precursor tissue thereof. In one embodiment, the bone morphogenic factor signal transduction pathway activating substance is BMP4. In one embodiment, the suspension culture is performed entirely or partially in the presence of a fibroblast growth factor. The produced cell aggregate can further contain a neural retinal tissue.

Fig. 2