[ABSTRACT]

The present invention relates to stem cells obtained by culturing monocytes in the presence of (i) M-CSF and (ii) at least one member selected from the group consisting of ganglioside and water-soluble plant-derived extract, thereby dedifferentiating the monocytes; a therapeutic agent for treating damaged cells, tissues or organs; a cell drug agent; a method of producing stem cells, a culture medium for dedifferentiating monocytes; a dedifferentiation inducing agent; a cell drug kit; a kit for producing dedifferentiated cells; and a pharmaceutical composition.