

METHOD FOR PRODUCING DENDRITIC CELL FORMULATION INCLUDING DENDRITIC CELLS THAT STIMULATE NKT CELLS

ABSTRACT

[Problem] To provide a method for producing a dendritic cell preparation for stimulating NKT cells, from monocytes collected from a beneficiary (monocytes obtained by apheresis or a peripheral blood containing monocytes), which preparation exhibits the effect more quickly than conventional products.

[Solution] Method for producing a dendritic cell preparation which comprises an adhesion step comprising placing collected monocytes into a culture vessel with a liquid medium and statically incubating them to allow some of said monocytes to adhere to the inner surface of the vessel, a non-adherent cell removal step comprising removing non-adherent cells including monocytes other than cells which have adhered to the inner surface of the culture vessel, a differentiation step comprising adding predetermined factors to the culture vessel to allow the monocytes adhered to the inner surface of the culture vessel to differentiate into immature dendritic cells, a pulsing step comprising pulsing α -Galactosylceramide into the culture vessel in which said immature dendritic cells are present in a non-adhering state, and an NKT-stimulating dendritic cell induction step comprising inducing NKT-stimulating dendritic cells which are dendritic cells that stimulate NKT cells, from the immature dendritic cells, wherein the preparation is for reintroducing into the body of the beneficiary from whom the blood has been collected.