【ABSTRACT】

The present invention relates to a composition and a method for inducing $CD4^+$ T cells to differentiate into regulatory T cells and proliferate through an induced T cell co-stimulator ligand (ICOSL) or an ICOSL- overexpressing mesenchymal stem cell and for preventing or treating regulatory T cell-mediated diseases. The induced T cell co-stimulator ligand (ICOSL) or ICOSL-overexpressing mesenchymal stem cell according to the present invention effectively suppresses the proliferation of PBMCs, induces the expression of an ICOS in regulatory T cells, thereby inducing the differentiation and proliferation of the regulatory T cells through a PI3K-Akt mechanism, and thus can effectively prevent, treat, or enhance regulatory T cell-mediated diseases.