ABSTRACT

IMMUNOCOMPETENT CELL THAT EXPRESSES A CELL SURFACE MOLECULE SPECIFICALLY RECOGNIZING HUMAN MESOTHELIN, IL-7 AND CCL19

An object of the present invention is to provide an immunocompetent cell targeting mesothelin. An immunocompetent cell that expresses a cell surface molecule specifically recognizing human mesothelin, interleukin 7 (IL-7), and chemokine (C-C motif) ligand 19 (CCL19) is produced. It is preferred that: the cell surface molecule specifically recognizing human mesothelin should be chimeric antigen receptor (CAR) having single chain antibody, a transmembrane region, and a signaling region that induces the activation of the immunocompetent cell; and the heavy chain variable region and the light chain variable region should be connected via a peptide linker consisting of a 2- to 30-amino acid sequence.

[No suitable figure]