Dc one kind of vaccine and its preparation method and application

Abstract

translated from Chinese

DC vaccine and its preparation method and applications of the present invention relates to a gastric cancer or breast cancer, according to the amino acid sequence of a tumor antigen construct a recombinant fusion protein of overlapping peptides, polypeptides from a series of overlapping peptide fusion protein composed of 15 amino acids, two adjacent there are 11 amino acid polypeptide is the same complete overlap between the overlapping peptides connected by the same enzyme sites li-key, the overlapping peptide fusion recombinant protein gene by restriction sites NdeI and BamH subcloned into pET28 vector, recombinant overlapping peptide fusion protein was purified by the E. coli expressed, in vitro human blood isolated from PBMC with GM-CSF and recombinant fusion proteins were co-cultured overlapping peptides, recombinant peptides overlapping by the fusion protein and then the DC endocytosis, intracellular generating digested a series of overlapping peptides uncertain phenotype containing CTL and / or Th phenotype of MHC bind to DC? I and MHC? II molecules of the DC maturation, DC vaccine obtained according to the present invention with the DC in vitro method for stimulating the synthesis of each peptide compared to DC to stimulate fast and low cost-effectiveness.

