Abstract

Provide are a peptide gel with practically sufficient mechanical strength and a self-assembling peptide capable of forming the peptide gel. The self-assembling peptide is formed of the following amino acid sequence: $a_1b_1c_1b_2a_2b_3db_4a_3b_5c_2b_6a_4$ where: a_1 to a_4 each represent a basic amino acid residue; b_1 to b_6 each represent an uncharged polar amino acid residue and/or a hydrophobic amino acid residue, provided that at least five thereof each represent a hydrophobic amino acid residue; c_1 and c_2 each represent an acidic amino acid residue; and d represents a hydrophobic amino acid residue.