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ACTION

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(54) Title: MODIFIED PEPTIDES AND PEPTIDOMIMETICS FOR USE IN IMMUNOTHERAPY

(57) Abstract: The invention relates to a modified peptide derived from H-Arg-Ser-Phe-Thr-Leu-Ala-Ser-Ser-Glu-Thr-Gly-Val-Gly-OH having general formula (II): Q-A1-A2-A3-A4-A5-A6-A7-A8-A9-A10-A11-A12-A13-Z. In general formula (II), A1 through A13 correspond with the amino acids of formula (I), Q corresponds with H and Z corresponds with OH. The modifications according to the present invention are selected one or more of the groups a, b or c, consisting of a) substitution of 1-6, preferably 1-4 amino acids at A1 through A13 with non-natural amino acids or β amino acids; b) substitution of one or more amide bonds with reduced amide bonds or ethylene isosteres; c) substitutions at Q and/or Z and, optionally, d) substitution of natural amino acids up to a total of 6 modifications. The peptides can be used for inducing tolerance induction in patients suffering from autoimmune diseases.