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(71) Applicant: **MEDIMMUNE LIMITED** [GB/GB]; Milstein Building, Granta Park, Cambrdge Cambridgeshire CB21 6GH (GB).

(72) Inventors: **REVELL, Jefferson**; c/o MedImmune Limited, Milstein Building, Granta Park, Cambridge Cambridgeshire CB21 6GH (GB). **BEDNAREK, Maria**; c/o MedImmune Limited, Milstein Building, Granta Park, Cambridge Cambridgeshire CB21 6GH (GB).

(74) Agent: **TTOFI, Evangelia**; Milstein Building, Granta Park, Cambridge Cambridgeshire CB21 6GH (GB).

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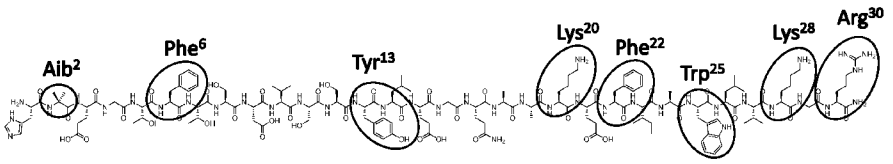
FIG. 1



(57) Abstract: The present invention provides protease-resistant peptides, methods of making such peptides, as well as compositions comprising protease-resistant peptides and method of treatment utilizing such peptides. Incorporation of alpha-methyl-functionalized amino acids directly into the main chain during standard peptide synthesis via the methodologies described herein has been determined to produce protease-resistant peptides.The preferred alpha-methyl-functionalized amino acid is alpha-methyl-Phenylalanine and the preferred peptide is glucagon-like peptide (GLP-1).

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