

[54] DECAPEPTIDES PRODUCED FROM BIOADHESIVE POLYPHENOLIC PROTEINS

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 [58] Field of Search ..... 435/69, 70

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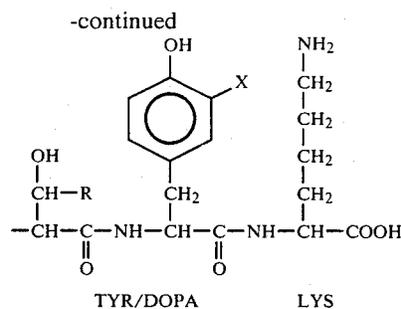
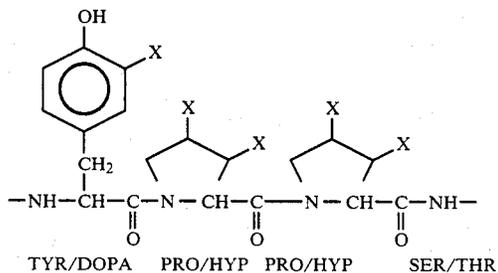
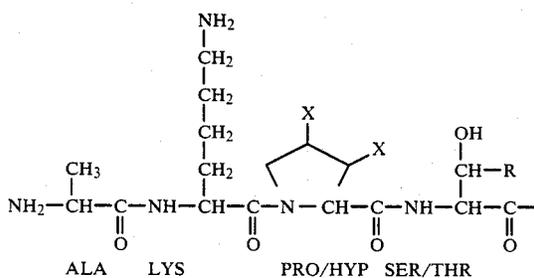
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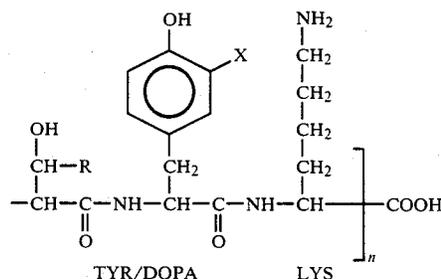
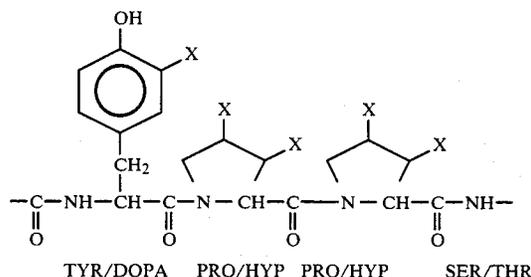
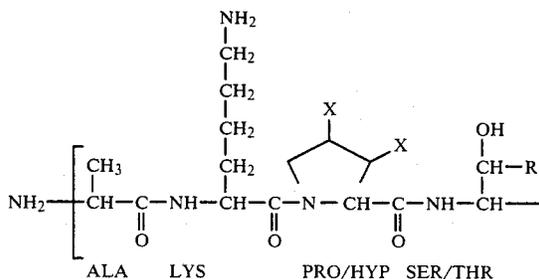
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[57] ABSTRACT

Methods are described for the preparation and isolation of novel decapeptides of the formula:



wherein each X is independently selected from the group comprising hydroxyl and hydrogen, wherein each R is independently selected from the group containing hydrogen and methyl, from bioadhesive polyphenolic proteins which comprise:



wherein n is a whole number from about 60 to about 100, wherein each X is independently selected from the group comprising hydroxyl and hydrogen, and wherein each R is independently selected from the group comprising hydrogen and methyl.

Such decapeptides may be used to construct large polyphenolic molecules comprising from about 1 to about 1000 decapeptide repeating units and wherein the linking group is selected from the group comprising amino acid, oligopeptide and bifunctional spacer.