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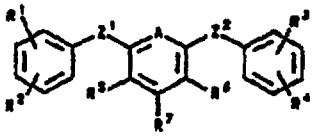
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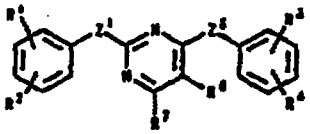
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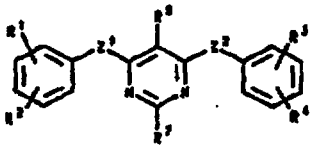
(54) Title: BENZAMIDINE DERIVATIVES SUBSTITUTED BY CYCLIC AMINO ACID OR CYCLIC HYDROXY ACID DERIVATIVES AND THEIR USE AS ANTI-COAGULANTS

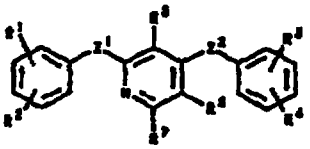
(57) Abstract

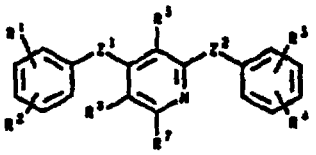
This invention is directed to benzamidine derivatives substituted by cyclic amico acid and cyclic hydroxy acid derivatives which are useful as anti-coagulants as represented by formulae (I), (II), (III), (IV), (V), (VI), (VII) wherein: A is $-C(R^8)=$ or $-N=$; Z^1 and Z^2 are independently $-O-$, $-N(R^9)-$, $-S-$, $-S(O)-$, $-S(O)_2-$, or $-OCH_2-$; R^2 is $-C(NH)NH_2$, $-C(NH)N(H)OR^9$, $-C(NH)N(H)C(O)OR^{12}$, $-C(NH)N(H)C(O)R^9$, $-C(NH)N(H)S(O)_2R^{12}$, or $-C(NH)N(H)C(O)N(H)R^9$; R^7 is $-N(R^9)-(C(R^9)(R^{10}))_n-R^{13}$ (where n is 0 to 4), $-O-(C(R^9)(R^{10}))_n-R^{13}$ (where n is 0 to 4), or $-N(R^{14})R^{15}$; R^1 and R^3 - R^6 are as defined in the description. This invention is also directed to pharmaceutical compositions containing the compounds of the invention, and methods of using the compounds to treat disease-states characterized by thrombotic activity.

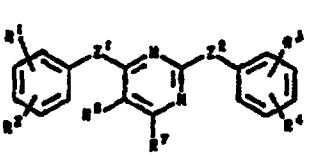

(I)

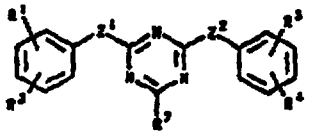

(II)


(III)


(IV)


(V)


(VI)


(VII)